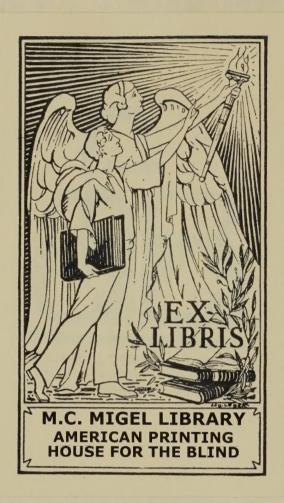
the model reporting area for blindness statistics 1965

HV1580 M72 5+29 1965



the model reporting area for blindness statistics

annual statistical report 1965



of Health, November 1966

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PREFACE

In 1962 the Biometrics Branch of the National Institute of Neurological Diseases and Blindness, with the counsel and cooperation of the National Society for the Prevention of Blindness, the American Foundation for the Blind, and the Division of Chronic Diseases of the Public Health Service, sponsored the organization of a Model Reporting Area for Blindness Statistics (MRA). This Model Reporting Area is a voluntary association of States which maintain registers of persons with severe vision impairment.

The basis for membership in the MRA is the maintenance of a statewide register of blind persons by a single State agency and the adherence to a specific set of standards. These standards include the adoption of a uniform definition of blindness, collection of specified information, annual updating of the register to reflect current status, adoption of the Standard Classification of Causes of Severe Vision Impairment and Blindness (prepared by the National Society for the Prevention of Blindness), and preparation of specified summary tabulations or tabulating-type punch cards from which such tabulations could be made. In 1965 the Model Reporting Area included the fourteen States listed below comprising about 19 percent of the total U.S. population.

The term "blindness" as used by the Model Reporting Area for Blindness Statistics includes severe vision impairment and is defined as follows: visual acuity of 20/200 or less in the better eye with best correction or visual acuity of better than 20/200 if the widest diameter of the field of vision subtends an angle no greater than 20 degrees. Individuals with a progressive eye condition which does not yet meet this definition are excluded.

MODEL REPORTING AREA STATES, 1965

Connecticut

Kansas
Oregon
Louisiana
Rhode Island
Massachusetts
South Dakota
New Hampshire
Utah
New Jersey
Vermont
New Mexico
Virginia

This is the fourth statistical report of the Model Reporting Area for Blindness Statistics. Further information about the Model Reporting Area may be obtained from:

Chief, Biometrics Branch
National Institute of Neurological Diseases and Blindness
National Institutes of Health, Bethesda, Md. 20014

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GENERAL NOTES

The 1965 Statistical Report is based on register data for 1965 submitted by each of the 14 member States of the Model Reporting Area for Blindness Statistics (MRA). Included in the report are 30 tables.

Population estimates for 1965 used in computing rates were prepared for each State separately by applying the proportion in a given agerace-sex group of the total State population enumerated on April 1, 1960, to the total resident population in the State as estimated by the Census Bureau for July 1, 1965. Population totals were obtained by addition. Rates were not computed for groups with populations under 25,000 because rates may be unduly affected by errors in estimating small population groups. Also, due to normal variations and reporting artifacts, rates computed for such groups might tend to be misleading.

It should be noted that some of the interstate variation in the rates of additions to the register and in rates for the end-of-year totals may be due to variations in the age and race composition of the respective populations as well as to normal annual fluctuations in these rates. Adjustment of rates by age and race will be made in future reports, where appropriate, after additional data and experience have been obtained from the Model Reporting Area program and reliable population data have been obtained. It should also be noted that some annual fluctuations in rates for register additions, end-of-year totals, and removals may occur as a result of revised or improved register procedures in some States.

Although each State has good rapport with the potential sources of report, and completeness of reporting is believed to be fairly high, it should be emphasized that the degree to which there is under-reporting is not known. Therefore, to the

extent that reporting is incomplete, the data on additions to the register in 1965 presented in this report would understate the incidence of diagnosed blindness.

The reported cause-of-blindness information in each State was classified according to the 1965 revision of the Standard Classification of Causes of Severe Vision Impairment and Blindness. Note should be made that the cause-of-blindness data have certain limitations. Despite efforts to achieve uniformity, it is certain that some differences existed among the States in the interpretation of classification principles. Also, the variation in diagnostic skills and completeness of cause-of-blindness reporting among States or localities may account for some of the differences found. Cause of blindness was tabulated only for those additions who were reported for the first time during 1965 and who were examined by physicians specializing in diseases of the eye, namely ophthalmologists and eye-ear-nose-andthroat specialists. The cause-of-blindness tabulations presented in this report are based on major groupings of the Standard Classification as indicated on page 2.

The MRA, as composed in 1965, cannot be considered to represent adequately the United States as a whole. Projecting MRA data directly to the United States is not recommended.

The following symbols are used in the tables:

- Quantity is zero in frequency tables.
- 0 Quantity is zero in rate or percent tables.
- 0.0 Quantity is more than 0 but less than 0.05 in rate or percent tables.
- Rate is not computed where estimated population was less than 25,000 or where percent with unknown information was 10 or more.

STANDARD CLASSIFICATION OF CAUSES OF SEVERE VISION IMPAIRMENT AND BLINDNESS, 1965 REVISION*

[ABBREVIATED LIST]

MAJOR AFFECTION GROUPS

Glaucoma, other than congenital Myopia

Keratitis (all types, including keratoconjunctivitis and pannus)

Other corneal affections (including corneal degeneration, dystrophy, keratomalacia, keratoconus, and other affections of cornea or sclera)

Cataract

Uveitis (including iritis, iridocyclitis, choroiditis, chorioretinitis, and sympathetic ophthalmia)

Retrolental fibroplasia (RLF)

Retinal degeneration (including retinitis pigmentosa, macular degeneration, and other retinal degeneration)

Other retinal affections (including retinitis, retinopathy, and detachment of retina)

Optic nerve atrophy (including optic neuritis and retrobulbar neuritis)

Multiple affections (including multiple affections reported without indication of priority as to cause of severe vision impairment, except multiple congenital anomalies and multiple injuries of eye)

Unknown (including site and type of affection not established on examination and no report on site and type of affection)
Other (including all other conditions not

specified above)

MAJOR ETIOLOGY GROUPS

Infectious diseases (all types including prenatal infection)

Injuries, poisonings

Neoplasms

Diabetes mellitus

Senile degeneration

Vascular diseases (including cerebrovascular, cardiac, or other vascular conditions)

Other general diseases (including anemia or other blood disease, nutritional deficiency, other metabolic or growth disorder, renal disease other than complicating pregnancy, multiple sclerosis, other demyelinating disease, other disorders of nervous system, hysteria or other disturbance of psychic control, complication of pregnancy, sarcoidosis, inflammatory non-infectious disease, and other specified disease or disorder not elsewhere classified)

Prenatal influence (not elsewhere classified, including that of hereditary or congenital origin)

Multiple etiologies (including multiple etiologies in cases of multiple affections)
Unknown to science

Not reported or determined (including etiology not established on examination and no report on etiology)

^{*}Prepared by the Subcommittee on Classification of Causes of Blindness, Committee on Operational Research, National Society for the Prevention of Blindness.

TABLE 1.—Summary table of first additions, readditions, removals, and end-of-year total on register:
each MRA State and MRA total, 1965

| | Estimated midvear | Nu | mber during y | ear | Total on | Rate per 100,000 population | | |
|----------------|--|--------------------|---------------|----------|-------------------------------|------------------------------------|---|--|
| State | population in thousands ¹ | First additions | Readditions | Removals | register at end of year | All additions during year | Total on register at end of year | |
| MRA total | 36,735 | ² 5,571 | ² 137 | 3 4,943 | 54,892 | ² 15.8 | 149.4 | |
| Connecticut | 2,830 | 299 | 34 | 278 | 3,256 | 11.8 | 115.1 | |
| Kansas | 2,248 | . 340 | 36 | 345 | 3,263 | 16.7 | 145.2 | |
| Louisiana | 3,560 | 416 | 6 | 610 | 6,027 | 11.9 | 169.3 | |
| Massachusetts | 5,361 | 984 | 5 | 730 | 9,713 | 18.4 | 181.2 | |
| New Hampshire | 673 | 130 | 3 | 105 | 1,039 | 19.8 | 154.4 | |
| New Jersey | 6,781 | 662 | 29 | 257 | 7,408 | 10.2 | 109.2 | |
| New Mexico | 1,014 | 178 | | 458 | 2,606 | 17.6 | 257.0 | |
| North Carolina | 4,935 | 1,264 | | 1,401 | 10,114 | 25.6 | 204.9 | |
| Oregon | 1,938 | 461 | 11 | 309 | 2,331 | 24.4 | 120.3 | |
| Rhode Island | 891 | 92 | 2 | 60 | 1,097 | 10.5 | 123. | |
| South Dakota | 686 | (2) | (2) | 100 | 859 | (2) | 125.2 | |
| Utah | 994 | 151 | | (3) | 1,200 | 15.2 | 120.7 | |
| Vermont | 404 | 74 | 6 | 95 | 676 | 19.8 | 167.3 | |
| Virginia | 4,420 | 520 | 5 | - 195 | 5,303 | 11.9 | 120.0 | |

¹ Source of population estimates: Bureau of the Census, Current Population Reports, Series P-25, No. 348, September 16, 1966. The figures include persons in the Armed Forces stationed in each State and exclude Armed Forces overseas.

Exclusive of South Dakota for which data were not available, there were 5,571 first additions and 137 readditions to the MRA register in 1965. (Readditions include new reports of blindness by individuals who were previously removed from the register due to recovered vision, migration from the State, etc.) The rate per 100,000 population for all additions to the MRA registers was 15.8. By State, the rates range from a low of 10.2 per 100,000 in New Jersey to a high of 25.6 in North Carolina.

Removals from the register for the MRA

(exclusive of Utah for which data were not available) during 1965 totaled 4,943.

The total number on the register at the end of 1965 for all 14 MRA States was 54,892, or a rate of about 149 per 100,000 population. Rates for the various States ranged from a low of 109.2 in New Jersey to a high of 257.0 in New Mexico.

Refer to General Notes for comments on factors affecting interstate and intrastate variation in register additions, removals, and end-ofyear totals.

² Data on 1965 first additions and readditions not available for South Dakota.

³ Data on 1965 removals not available for Utah.

TABLE 2.—All additions to register by race, sex and age: MRA total, 1965 (number and rate)

[Exclusive of South Dakota]

| Race and sex | Age | | | | | | | | | | | | |
|------------------|-------|---------|------|----------|-------------|----------|-------|-------------|---------|--|--|--|--|
| | Total | Under 5 | 5–19 | 20-44 | 45-64 | 65-74 | 75-84 | 85 and over | Unknown | | | | |
| | | | | | Number | | | | | | | | |
| Total, all races | 5,708 | 122 | 589 | 658 | 1,430 | 859 | 1,177 | 586 | 28 | | | | |
| Male | 2,692 | 65 | 349 | 379 | 716 | 355 | 468 | 221 | 139 | | | | |
| Female | 3,016 | 57 | 240 | 279 | 714 | 504 | 709 | 365 | 148 | | | | |
| White | 4,142 | 71 | 383 | 483 | 971 | 645 | 966 | 497 | 120 | | | | |
| Male | 1,951 | 39 | 222 | 288 | 508 | 266 | 388 | 186 | 54 | | | | |
| Female | 2,191 | 32 | 161 | 195 | 463 | 379 | 578 | 311 | 72 | | | | |
| Nonwhite | 1,114 | 35 | 111 | 153 | 400 | 180 | 154 | 58 | 25 | | | | |
| Male | 521 | 21 | 72 | 78 | 180 | 77 | 59 | 22 | 15 | | | | |
| Female | 593 | 14 | 39 | 75 | 220 | 103 | 95 | 36 | 1 | | | | |
| Unknown | 452 | 16 | 95 | 22 | 59 | 34 | 57 | 31 | 138 | | | | |
| Male | 220 | 5 | 55 | 13 | 28 | 12 | 21 | 13 | 7: | | | | |
| Female | 232 | 11 | 40 | 9 | 31 | 22 | 36 | 18 | 6 | | | | |
| - | | | | Rate per | 100,000 pop | oulation | | 1 1 | | | | | |
| Total, all races | 15.8 | 3.0 | 6.0 | 5.6 | 20.1 | 40.4 | 131.4 | 316.8 | | | | | |
| Male | 15.2 | 3.1 | 7.0 | 6.6 | 20.7 | 36.6 | 123.5 | 320.3 | | | | | |
| Female | 16.5 | 2.8 | 4.9 | 4.7 | 19.5 | 43.5 | 137.1 | 314.7 | | | | | |
| White | 13.1 | | | 4.7 | 15.1 | 33.2 | 116.9 | 294.1 | | | | | |
| Male | 12.5 | | | 5.6 | 16.2 | 30.2 | 112.1 | 300.0 | | | | | |
| Female | 13.6 | | | 3.7 | 14.0 | 35.7 | 120.4 | 290.7 | | | | | |
| Nonwhite | 25.4 | | | 11.3 | 57.9 | 96.8 | 220.0 | | | | | | |
| Male | 24.3 | | | 12.2 | 54.1 | 87.5 | 184.4 | | | | | | |
| Female | 26.3 | | | 10.6 | 61.5 | 105.1 | 256.8 | | | | | | |

Reliable estimates of the population of each MRA State for race, by age and sex for a noncensus year are not available. As a result, the age-specific rates in the race portion of the table should be regarded as a crude representation and not necessarily as a reflection of the true reported incidence rates in that particular portion of the population. The rate per 100,000 for additions was lowest under 5 years of age and remained relatively low at a constant level in the succeeding

age groups through 44 years of age. Thereafter the rates increased markedly with age in each sex. Males had slightly higher rates than females in each group through 64 years, whereas the rates for females were higher in the age group 65 through 74 and 75 through 84. The rate for males was higher than for females in the age group 85 and over. The overall rate for females was somewhat higher than for males, 16.5 compared with 15.2 per 100,000 population.

TABLE 3.—All additions to register by race and sex: each MRA State and MRA total, 1965 (number and rate)

[Exclusive of South Dakota]

| State | | All races | | | White | | | Nonwhite | | Unknown | | |
|---------------------|-------|-----------|--------|----------|-------|-----------|----------|----------|------------|---------|------|----------|
| | Total | Male | Female | Total | Male | Female | Total | Male | Female | Total | Male | Female |
| | | | | | · | Nun | nber | | | | | · |
| MRA total | 5,708 | 2,692 | 3,016 | 4,142 | 1,951 | 2,191 | 1,114 | 521 | 593 | 452 | 220 | 232 |
| Connecticut | 333 | 162 | 171 | 304 | 154 | 150 | 28 | 8 | 20 | 1 | | 1 |
| Kansas | 376 | 171 | 205 | 332 | 148 | 184 | 41 | 21 | 20 | 3 | 2 | 1 |
| Louisiana | 422 | 212 | 210 | 229 | 116 | 113 | 193 | 96 | 97 | _ | | _ |
| Massachusetts | 989 | 432 | 557 | 724 | 317 | 407 | 30 | 15 | 15 | 235 | 100 | 138 |
| New Hampshire | 133 | 56 | 77 | 128 | 54 | 74 | 3 | 1 | 2 | 2 | 1 | 1 |
| New Jersey | 691 | 339 | 352 | 446 | 210 | 236 | 125 | 64 | 61 | 120 | 65 | 55 |
| New Mexico | 178 | 83 | 95 | 167 | 79 | 88 | 7 | 3 | 4 | 4 | 1 | 5 |
| North Carolina | 1,264 | 565 | 699 | 755 | 350 | 405 | 509 | 215 | 294 | | | _ |
| Oregon | 472 | 240 | 232 | 404 | 198 | 206 | 14 | 9 | 5 | 54 | 33 | 21 |
| Rhode Island | 94 | 45 | 49 | 90 | 43 | 47 | 3 | 2 | 1 | 1 | _ | 1 |
| Utah | 151 | 65 | 86 | 145 | 62 | 83 | 6 | 3 | 3 | | _ | |
| Vermont | 80 | 41 | 39 | 80 | 41 | 39 | | | Arrament . | | _ | |
| Virginia | 525 | 281 | 244 | 338 | 179 | 159 | 155 | 84 | 71 | 32 | 18 | 14 |
| | | <u> </u> | I | <u> </u> | Rate | per 100,0 | 000 popu | lation | | | | <u> </u> |
| MRA total | 15.8 | 15.2 | 16.5 | 13.1 | 12.5 | 13.6 | 25.4 | 24.3 | 26.3 | | | |
| 1411611 00001111111 | | 10.2 | 10.0 | 10.1 | | | 20.1 | | | | | |
| Connecticut | 11.8 | 11.7 | 11.9 | 11.2 | 11.6 | 10.9 | 22.6 | 13.1 | 31.7 | | | |
| Kansas | 16.7 | 15.3 | 18.1 | 15.5 | 13.9 | 17.0 | 39.8 | 40.4 | 38.5 | | | |
| Louisiana | 11.9 | 12.2 | 11.5 | 9.5 | 9.7 | 9.2 | 16.9 | 17.5 | 16.3 | | | |
| Massachusetts | 18.4 | 16.7 | 20.1 | | | | | | | | | |
| New Hampshire | 19.8 | 16.9 | 22.5 | 19.1 | 16.4 | 21.7 | | | | | | |
| New Jersey | 10.2 | 10.2 | 10.2 | | | | | | | | | |
| New Mexico | 17.6 | 16.2 | 18.9 | 17.9 | 16.7 | 19.0 | 8.8 | 7.5 | 10.0 | | | |
| North Carolina | 25.6 | 23.2 | 27.9 | 20.5 | 19.2 | 21.8 | 40.6 | 35.3 | 45.7 | | | |
| Oregon | 24.4 | 24.9 | 23.8 | | | | | | | | | |
| Rhode Island | 10.5 | 10.3 | 10.8 | 10.4 | 10.1 | 10.6 | | | | | | |
| Utah | 15.2 | 13.1 | 17.3 | 14.9 | 12.7 | 17.0 | | | | | | |
| Vermont | 19.8 | 20.6 | 19.0 | 19.9 | 20.7 | 19.0 | 0 | 0 | 0 | | | |
| | | | | | | | 16.9 | 18.5 | | | | |

Rates were not computed by race for Massachusetts, New Jersey, and Oregon because of the high percentage of register additions for whom race was unknown. For the entire MRA the rates for nonwhites were about twice as high as the rates for whites of either sex. The pattern of higher rates for nonwhites held in all States

for which reliable nonwhite rates could be computed with the exception of New Mexico. For the MRA as a whole the rates for females were higher than the rates for males in both race groups, although some deviation from this pattern was evident among the individual States.

TABLE 4.—All additions to register by age: each MRA State and MRA total, 1965 (number and rate)

[Exclusive of South Dakota]

| State | | | | | Age | | | | | | | | |
|----------------|-----------------------------|---------|------|-------|--------|-------------|-------|-------------|---------|--|--|--|--|
| | Total | Under 5 | 5–19 | 20-44 | 45-64 | 65-74 | 75-84 | 85 and over | Unknown | | | | |
| | | | | | Number | | | | | | | | |
| MRA total | 5,708 | 122 | 589 | 658 | 1,430 | 859 | 1,177 | 586 | 287 | | | | |
| Connecticut | 333 | 5 | 49 | 41 | 86 | 65 | 59 | 27 | | | | | |
| Kansas | 376 | | 17 | 45 | 75 | 64 | 103 | 72 | **** | | | | |
| Louisiana | 422 | 12 | 54 | 66 | 172 | 41 | 38 | 32 | | | | | |
| Massachusetts | 989 | 24 | 63 | 70 | 200 | 156 | 231 | 96 | 14 | | | | |
| New Hampshire | 133 | 7 | 6 | 9 | 32 | 21 | 33 | 22 | | | | | |
| New Jersey | 691 | 20 | 105 | 80 | 229 | 61 | 83 | 49 | 6 | | | | |
| New Mexico | 178 | | 1 | 21 | . 31 | 33 | 63 | 23 | | | | | |
| North Carolina | 1,264 | 31 | 91 | 147 | 312 | 236 | 315 | 131 | | | | | |
| Oregon | 472 | 7 | 71 | 71 | 80 | 69 | 95 | 69 | 1 | | | | |
| Rhode Island | 94 | 4 | 19 | 14 | 28 | 11 | 13 | 5 | _ | | | | |
| Utah | 151 | 1 | 10 | 19 | 19 | 19 | 56 | - 27 | _ | | | | |
| Vermont | 80 | 3 | 6 | 10 | 22 | 10 | 15 | 13 | | | | | |
| Virginia | 525 | 8 | 97 | 65 | 144 | 73 | 73 | 20 | 4 | | | | |
| - | Rate per 100,000 population | | | | | | | | | | | | |
| MRA total | 15.8 | 3.0 | 6.0 | 5.6 | 20.1 | 40.4 | 131.4 | 316.8 | | | | | |
| WITTI LOCAL_ | 10.0 | | | | 20.1 | 10.1 | 101.4 | | | | | | |
| Connecticut | 11.8 | 1.6 | 6.9 | 4.4 | 14.4 | 35.7 | 80.8 | | | | | | |
| Kansas | 16.7 | 0 | 2.8 | 6.4 | 16.9 | 41.6 | 135.5 | | | | | | |
| Louisiana | 11.9 | 2.6 | 5.0 | 6.0 | 26.6 | 23.3 | 52.1 | | | | | | |
| Massachusetts | 18.4 | | | | | | | | | | | | |
| New Hampshire | 19.8 | 9.6 | 3.4 | 4.4 | 22.7 | 43.8 | | | | | | | |
| New Jersey | 10.2 | 2.8 | 6.3 | 3.5 | 15.5 | 14.2 | 50.6 | 158.1 | | | | | |
| New Mexico | 17.6 | 0 | 0.3 | 6.2 | 20.3 | 89.2 | | | | | | | |
| North Carolina | 25.6 | 5.4 | 6.0 | 9.0 | 35.8 | 103.5 | 342.4 | | | | | | |
| Oregon | 24.4 | 3.4 | 13.2 | 12.1 | 19.5 | 52.3 | 163.8 | | | | | | |
| Rhode Island | 10.5 | 4.3 | 8.4 | 4.8 | 14.7 | 17.7 | 50.0 | | | | | | |
| Utah | 15.2 | 0.7 | 3.2 | 6.1 | 11.9 | 43.2 | | | | | | | |
| Vermont | 19.8 | 6.7 | 5.3 | 8.5 | 27.2 | 35.7 | | | | | | | |
| Virginia | 11.9 | 1.6 | 7.7 | 4.3 | 18.0 | 34.3 | 81.1 | | | | | | |

Age-specific rates were not computed for Massachusetts because of the high proportion of register additions with unknown age. Among the other MRA States there was some appreciable interstate variation in age-specific rates. However,

generally for these States in the MRA as a whole, the rates were lowest under 5 years of age, remained low in the age group through 44 years and thereafter increased rather sharply in each succeeding age group.

[Exclusive of South Dakota]

| | | | | | Degree of | vision | | | | | | | |
|----------------|---------|-----------------------|--------------------------|------------------|-----------------------|----------------------------------|-----------------------------------|--------|----------------------|---------|--|--|--|
| State ' | Total | Absolute blindness | Light percep- tion | Light projection | Less than 5/200 | 5/200 but less than 10/200 | 10/200 but less than 20/200 | 20/200 | Field restriction | Unknown | | | |
| | | | | | Number | | ' | | | | | | |
| MRA total | 5,708 | 375 | 496 | . 56 | 954 | 614 | 997 | 1,591 | 324 | 301 | | | |
| Connecticut | 333 | 30 | 26 | 5 | 51 | 42 | 40 | 106 | 16 | 17 | | | |
| Kansas | 376 | 18 | 41 | 3 | 60 | 48 | 52 | 118 | 7 | 29 | | | |
| Louisiana | 422 | 41 | 29 | 21 | 95 | 17 | 71 | 92 | 44 | 1 | | | |
| Massachusetts | 989 | 52 | 59 | 9 | 142 | 145 | 245 | 274 | 42 | 2 | | | |
| New Hampshire | . 133 | 7 | 15 | | 23 | 11 | 23 | 40 | 5 | | | | |
| New Jersey | 691 | 49 | 65 | 9 | 120 | 69 | 105 | 169 | 47 | 55 | | | |
| New Mexico | . 178 | 6 | 23 | | 51 | 9 | 17 | 63 | 1 | | | | |
| North Carolina | 1,264 | 55 | 128 | 1 | 210 | 113 | 198 | 364 | 83 | 11: | | | |
| Oregon | 472 | 54 | 40 | _ | 82 | 55 | 108 | 103 | 29 | | | | |
| Rhode Island | 94 | 7 | 5 | 2 | 7 | 9 | 11 | 40 | 10 | | | | |
| Utah | 151 | 4 | 10 | 1 | 27 | 17 | 34 | 43 | 8 | | | | |
| Vermont | 80 | 2 | 7 | 2 | 10 | 12 | 7 | 26 | 4 | 1 | | | |
| Virginia | . 525 | 50 | 48 | 3 | 7 6 | 67 | 86 | 153 | 28 | 1. | | | |
| | Percent | | | | | | | | | | | | |
| MRA total | 100.0 | 6.6 | 8.7 | 1.0 | 16.7 | 10.8 | 17.5 | 27.9 | 5.7 | 5.3 | | | |
| Connecticut | 100.0 | 9.0 | 7.8 | 1.5 | 15.3 | 12.6 | 12.0 | 31.8 | 4.8 | 5. | | | |
| Kansas | 100.0 | 4.8 | 10.9 | 0.8 | 16.0 | 12.8 | 13.8 | 31.4 | 1.9 | 7. | | | |
| Louisiana | 100.0 | 9.7 | 6.9 | 5.0 | 22.5 | 4.0 | 16.8 | 21.8 | 10.4 | 2. | | | |
| Massachusetts | 100.0 | 5.3 | 6.0 | 0.9 | 14.4 | 14.7 | 24.8 | 27.7 | 4.2 | 2. | | | |
| New Hampshire | 100.0 | 5.3 | 11.3 | 0 | 17.3 | 8.3 | 17.3 | 30.1 | 3.8 | 6. | | | |
| New Jersey | 100.0 | 7.1 | 9.4 | 1.3 | 17.4 | 10.0 | 15.2 | 24.5 | 6.8 | 8. | | | |
| New Mexico | 100.0 | 3.4 | 12.9 | 0 | 28.7 | 5.1 | 9.6 | 35.4 | 0.6 | 4. | | | |
| North Carolina | 100.0 | 4.4 | 10.1 | 0.1 | 16.6 | 8.9 | 15.7 | 28.8 | 6.6 | 8. | | | |
| Oregon | 100.0 | 11.4 | 8.5 | 0 | 17.4 | 11.7 | 22.9 | 21.8 | 6.1 | 0. | | | |
| Rhode Island | 100.0 | 7.4 | 5.3 | 2.1 | 7.4 | 9.6 | 11.7 | 42.6 | 10.6 | 3. | | | |
| Utah | 100.0 | 2.6 | 6.6 | 0.7 | 17.9 | 11.3 | 22.5 | 28.5 | 5.3 | 4. | | | |
| Vermont | 100.0 | 2.5 | 8.8 | 2.5 | 12.5 | 15.0 | 8.8 | 32.5 | 5.0 | 12. | | | |
| | 100.0 | 9.5 | 9.1 | 0.6 | 14.5 | 12.8 | 16.4 | 29.1 | 5.3 | 2. | | | |

Persons reported with vision of exactly 20/200 represented 27.9 percent of the MRA total. However, it should be noted that the generally high proportion of persons reported in the MRA States with exactly this degree of vision probably indicates a lack of precise visual acuity measurement or a lack of careful recording by the eye examiner, particularly since this level of acuity is sufficient to identify the "legally" blind. No doubt a number of persons classified in this category have vision bordering on the "legal" blindness level, either somewhat less than 20/200 or between 20/100 and 20/200.

About 16 percent of all register additions in the MRA had a degree of vision equal to light projection or less, including nearly 7 percent who were totally blind. Approximately 6 percent of those registered during the year had visual acuity greater than 20/200 but with visual field restricted to 20 degrees or less.

The "unknown" degree of vision category includes persons presumed to be blind by definition but who could not be examined adequately because of age or other reason or for whom there was no report of actual visual acuity. Some 5 percent of all MRA additions were in this category.

TABLE 6.—All additions to register by race, sex and degree of vision: MRA total, 1965 (number and percent)

[Exclusive of South Dakota]

| | | | | | Degree | of vision | | | | |
|------------------|----------------|-----------------------|------------------|------------------|-----------------------|----------------------------------|-----------------------------------|--------------|----------------------|------------|
| Race and sex | Total | Absolute blindness | Light perception | Light projection | Less than 5/200 | 5/200 but less than 10/200 | 10/200 but less than 20/200 | 20/200 | Field restriction | Unknown |
| | | | | | Nu | mber | | | | |
| Total, all races | 5,708 | 375 | 496 | . 56 | 954 | 614 | 997 | 1,591 | 324 | 301 |
| Male Female | 2,692 3,016 | 177 198 | 222 274 | 26 30 | 435 519 | 298 316 | 453 544 | 770 821 | 172 152 | 139 162 |
| White | 4,142 | 264 | 353 | 41 | 667 | 451 | 745 | 1,213 | 202 | 206 |
| Male Female | 1,951 2,191 | 129 135 | 161 192 | 16 25 | 303 364 | 228 223 | 338 407 | 569 644 | 116 86 | 91 115 |
| Nonwhite | 1,114 | 88 | 115 | 15 | 223 | 104 | 148 | 252 | 103 | 66 |
| Male Female | 521 593 | 40 48 | 48 | 10 5 | 105 118 | 48 56 | 61 87 | 128 124 | 47 56 | 34 32 |
| Unknown | 452 | 23 | 28 | _ | 64 | 59 | 104 | 126 | 19 | 29 |
| Male Female | 220 232 | 8 15 | 13 15 | _ | 27 37 | 22 37 | 54 50 | 73 53 | 9 10 | 14 |
| | | | <u> </u> | 11 | Pe | rcent | | | 1 | |
| Total, all races | 100.0 | 6.6 | 8.7 | 1.0 | 16.7 | 10.8 | 17.5 | 27.9 | 5.7 | 5.3 |
| MaleFemale | 100.0 | 6.6 | 8.2 9.1 | 1.0 | 16.2 17.2 | 11.1 10.5 | 16.8 18.0 | 28.6 27.2 | 6.4 | 5.2 |
| White | 100.0 | 6.4 | 8.5 | 1.0 | 16.1 | 10.9 | 18.0 | 29.3 | 4.9 | 5.0 |
| MaleFemale | 100.0 | 6.6 | 8.3 8.8 | 0.8 | 15.5 16.6 | 11.7 10.2 | 17.3 18.6 | 29.2 29.4 | 5.9 3.9 | 4.7 |
| Nonwhite | 100.0 | 7.9 | 10.3 | 1.3 | 20.0 | 9.3 | 13.3 | 22.6 | 9.2 | 5.9 |
| Male Female | 100.0 | 7.7 8.1 | 9.2 11.3 | 1.9 | 20.2 19.9 | 9.2 9.4 | 11.7 14.7 | 24.6 20.9 | 9.0 | 6.5 |

Nonwhites were reported to have a slightly greater loss of visual acuity than whites; and proportionately more nonwhites than whites were classified blind due to field restriction.

There were also more males than females classified blind because of field restriction, but otherwise there was little difference by sex in the distribution of register additions according to degree of vision.

TABLE 7.—All additions to register by age and degree of vision: MRA total, 1965 (number and percent)
[Exclusive of South Dakota]

| | | | | | Degree | e of vision | | | | | | |
|-----------------|---------|-----------------------|--------------------------|------------------|-----------------------|----------------------------------|-----------------------------------|--------|----------------------|---------|--|--|
| Age | Total | Absolute blindness | Light percep- tion | Light projection | Less than 5/200 | 5/200 but less than 10/200 | 10/200 but less than 20/200 | 20/200 | Field restriction | Unknown | | |
| | | Number | | | | | | | | | | |
| Total, all ages | 5,708 | 375 | 496 | 56 | 954 | 614 | 997 | 1,591 | 324 | 301 | | |
| Under 5 | 122 | 25 | 18 | 4 | 6 | 2 | 3 | 5 | | 59 | | |
| 5-19 | 589 | 45 | 36 | 3 | 56 | 50 | 100 | 248 | 16 | 35 | | |
| 20-44 | 658 | 83 | 49 | 3 | 91 | 59 | 96 | 186 | 54 | 37 | | |
| 45-64 | 1,430 | 77 | 117 | 15 | 267 | 153 | 261 | 366 | 132 | 42 | | |
| 65-74 | 859 | 41 | 85 | 11 | 178 | 94 | 143 | 217 | 62 | 28 | | |
| 75-84 | 1,177 | 58 | 114 | 10 | 202 | 146 | 218 | 347 | 37 | 45 | | |
| 85 and over | 586 | 35 | 58 | 7 | 111 | 75 | 104 | 148 | 8 | 40 | | |
| Unknown | 287 | 11 | 19 | 3 | 43 | 35 | 72 | 74 | 15 | 15 | | |
| | Percent | | | | | | | | | | | |
| Total, all ages | 100.0 | 6.6 | 8.7 | 1.0 | 16.7 | 10.8 | 17.5 | 27.9 | 5.7 | 5.3 | | |
| Under 5 | 100.0 | 20.5 | 14.8 | 3.3 | 4.9 | 1.6 | 2.5 | 4.1 | 0 | 48.4 | | |
| 5-19 | 100.0 | 7.6 | 6.1 | 0.5 | 9.5 | 8.5 | 17.0 | 42.1 | 2.7 | 5.9 | | |
| 20-44 | 100.0 | 12.6 | 7.4 | 0.5 | 13.8 | 9.0 | 14.6 | 28.3 | 8.2 | 5.6 | | |
| 45-64 | 100.0 | 5.4 | 8.2 | 1.0 | 18.7 | 10.7 | 18.3 | 25.6 | 9.2 | 2.9 | | |
| 65-74 | 100.0 | 4.8 | 9.9 | 1.3 | 20.7 | 10.9 | 16.6 | 25.3 | 7.2 | 3.3 | | |
| 75-84 | 100.0 | 4.9 | 9.7 | 0.8 | 17.2 | 12.4 | 18.5 | 29.5 | 3.1 | 3.8 | | |
| 85 and over | 100.0 | 6.0 | 9.9 | 1.2 | 18.9 | 12.8 | 17.7 | 25.3 | 1.4 | 6.8 | | |
| | | | | | | | | | | | | |

More than one-third of children under 5 years of age had visual acuity reported to be of light projection or less. Also of note is the fact that 48 percent of the under 5-year age group had

unknown degree of vision. The largest percentages in the remaining age groups occurred in the 20/200 category. (See comments for Table 5 regarding 20/200 acuity.)

TABLE 8.—First additions to register by age at onset: each MRA State and MRA total, 1965 (number and percent)

[Exclusive of South Dakota]

| | | | | | Age a | t onset | | | | | | | |
|----------------|---------|----------|---------|------|------------|---------|-------|-------|----------------|---------|--|--|--|
| State | Total | At birth | Under 5 | 5-19 | 20-44 | 45-64 | 65–74 | 75-84 | 85 and over | Unknown | | | |
| | | , | ' | | Nui | mber | | | | | | | |
| MRA total | 5,571 | 511 | 110 | 163 | 447 | 1,080 | 621 | 716 | 182 | 1,741 | | | |
| Connecticut | 299 | 38 | 9 | 11 | 35 | 73 | 58 | 44 | 13 | 18 | | | |
| Kansas | 340 | 15 | 3 | 12 | 29 | 69 | 60 | 83 | 35 | 34 | | | |
| Louisiana | 416 | 91 | 16 | 11 | 5 3 | 142 | 27 | 45 | 10 | 21 | | | |
| Massachusetts | 984 | 37 | 7 | 5 | 23 | 61 | 42 | 30 | 8 | 771 | | | |
| New Hampshire | 130 | 9 | 4 | | 3 | 12 | 5 | 4 | 7 | 86 | | | |
| New Jersey | 662 | 50 | 15 | 21 | 69 | 152 | 54 | 58 | 12 | 231 | | | |
| New Mexico | 178 | 12 | | 3 | 14 | 32 | 28 | 52 | 11 | 26 | | | |
| North Carolina | 1,264 | 139 | 9 | 55 | 124 | 355 | 241 | 273 | 59 | 9 | | | |
| Oregon | 461 | 5 | 21 | 7 | 15 | 27 | 16 | 22 | 8 | 340 | | | |
| Rhode Island | 92 | 19 | 4 | 6 | 12 | 28 | 9 | 5 | 2 | 7 | | | |
| Utah | 151 | 9 | 2 | 5 | 18 | 22 | 25 | 56 | 12 | 2 | | | |
| Vermont | 74 | 7 | 2 | 4 | 10 | 16 | 15 | 13 | 4 | 3 | | | |
| Virginia | 520 | 80 | 18 | 23 | 42 | 91 | 41 | 31 | 1 | 193 | | | |
| | Percent | | | | | | | | | | | | |
| MRA total | 100.0 | 9.2 | 2.0 | 2.9 | 8.0 | 19.4 | 11.1 | 12.9 | 3.3 | 31.3 | | | |
| Connecticut | 100.0 | 12.7 | 3.0 | 3.7 | 11.7 | 24.4 | 19.4 | 14.7 | 4.3 | 6.0 | | | |
| Kansas | 100.0 | 4.4 | 0.9 | 3.5 | 8.5 | 20.3 | 17.6 | 24.4 | 10.3 | 10.0 | | | |
| Louisiana | 100.0 | 21.9 | 3.8 | 2.6 | 12.7 | 34.1 | 6.5 | 10.8 | 2.4 | 5.0 | | | |
| Massachusetts | 100.0 | 3.8 | 0.7 | 0.5 | 2.3 | 6.2 | 4.3 | 3.0 | 0.8 | 78.4 | | | |
| New Hampshire | 100.0 | 6.9 | 3.1 | 0 | 2.3 | 9.2 | 3.8 | 3.1 | 5.4 | 66.2 | | | |
| New Jersey | 100.0 | 7.6 | 2.3 | 3.2 | 10.4 | 23.0 | 8.2 | 8.8 | 1.8 | 34.9 | | | |
| New Mexico | 100.0 | 6.7 | 0 | 1.7 | 7.9 | 18.0 | 15.7 | 29.2 | 6.2 | 14.6 | | | |
| North Carolina | 100.0 | 11.0 | 0.7 | 4.4 | 9.8 | 28.1 | 19.1 | 21.6 | 4.7 | 0.7 | | | |
| Oregon | 100.0 | 1.1 | 4.6 | 1.5 | 3.3 | 5.9 | 3.5 | 4.8 | 1.7 | 73.8 | | | |
| Rhode Island | 100.0 | 20.7 | 4.3 | 6.5 | 13.0 | 30.4 | 9.8 | 5.4 | 2.2 | 7.6 | | | |
| Utah | 100.0 | 6.0 | 1.3 | 3.3 | 11.9 | 14.6 | 16.6 | 37.1 | 7.9 | 1.3 | | | |
| Vermont | 100.0 | 9.5 | 2.7 | 5.4 | 13.5 | 21.6 | 20.3 | 17.6 | 5.4 | 4.1 | | | |
| Virginia | 100.0 | 15.4 | 3.5 | 4.4 | 8.1 | 17.5 | 7.9 | 6.0 | 0.2 | 37.1 | | | |

Valid information on age at onset is difficult to obtain and may be poorly reported. Even though the proportion with unknown age at onset is less than it was last year for each MRA State, there is still a high proportion with unknown age at onset in several States. Interstate

variations are difficult to interpret in the absence of more complete information. However, of some interest are the relatively large proportions of persons reported to be blind at birth in Louisiana, Rhode Island, and Virginia.

TABLE 9.—First additions to register by discipline of examiner: each MRA State and MRA total, 1965 (number and percent)

[Exclusive of South Dakota]

| | Discipline of examiner | | | | | | | | | | | |
|--------------------------------|------------------------|---------------------------------|------------|-------------|-------|---|--|--|--|--|--|--|
| State | Total | Ophthal- mologist or EENT | Other M.D. | Optometrist | Other | Unknown | | | | | | |
| | | | Nun | nber | | | | | | | | |
| MRA total | 5,571 | 5,120 | 140 | 231 | 24 | 56 | | | | | | |
| Connecticut | 299 | 279 | 4 | 6 | 4 | 6 | | | | | | |
| Kansas | 340 | 316 | 6 | 17 | 1 | | | | | | | |
| Louisiana | 416 | 386 | 6 | 22 | | 2 | | | | | | |
| Massachusetts | 984 | 839 | 52 | 84 | 1 | 8 | | | | | | |
| New Hampshire | 130 | 107 | 3 | 20 | - | *************************************** | | | | | | |
| New Jersey | 662 | 644 | Attaches | 4 | 7 | 7 | | | | | | |
| New Mexico | 178 | 162 | 2 | 7 | | 7 | | | | | | |
| North Carolina | 1,264 | 1,203 | 18 | 32 | | 11 | | | | | | |
| Oregon | 461 | 400 | 40 | 14 | - | 7 | | | | | | |
| Rhode Island | 92 | 88 | | | 2 | . 2 | | | | | | |
| Utah | 151 | 140 | 3 | 6 | 2 | entendari | | | | | | |
| Vermont | 74 | 65 | 1 | 2 | 6 | - | | | | | | |
| Virginia | 520 | 491 | 5 | . 17 | 1 | 6 | | | | | | |
| | Percent | | | | | | | | | | | |
| MRA total | 100.0 | 91.9 | 2.5 | 4.1 | 0.4 | 1.0 | | | | | | |
| Connecticut | 100.0 | 93.3 | 1.3 | 2.0 | 1.3 | 2.0 | | | | | | |
| Kansas | 100.0 | 92.9 | 1.8 | 5.0 | 0.3 | 0 | | | | | | |
| Louisiana | 100.0 | 92.8 | 1.4 | 5.3 | 0 | 0.5 | | | | | | |
| Massachusetts | 100.0 | 85.3 | 5.3 | 8.5 | 0.1 | 0.8 | | | | | | |
| New Hampshire | 100.0 | 82.3 | 2.3 | 15.4 | 0 | 0 | | | | | | |
| New Jersey | 100.0 | 97.3 | 0 | 0.6 | 1.1 | 1.1 | | | | | | |
| New Mexico | 100.0 | 91.0 | 1.1 | 3.9 | 0 | 3.9 | | | | | | |
| North Carolina | 100.0 | 95.2 | 1.4 | 2.5 | 0 | 0.9 | | | | | | |
| | 100.0 | 86.8 | 8.7 | 3.0 | 0 | 1.5 | | | | | | |
| Oregon | . 100.0 | | | | 0.0 | 2.2 | | | | | | |
| Oregon Rhode Island | 100.0 | 95.7 | 0 | 0 | 2.2 | | | | | | | |
| Oregon Rhode Island Utah | | 92.7 | 0 2.0 | 4.0 | 1.3 | 0 | | | | | | |
| Oregon Rhode Island | 100.0 | | | _ | | | | | | | | |

The great majority (92 percent) of first additions in the total MRA were known to be examined by ophthalmologists or eye-ear-nose-and throat specialists; and in each of the 13 States

for which data were available, at least 82 percent of the first additions were examined by these medical eye specialists.

TABLE 10.—First additions to register by degree of vision and discipline of examiner: MRA total, 1965 (number and percent)

[Exclusive of South Dakota]

| | | | Discipline | of examiner | | | | | | |
|-----------------------------|---------|---------------------------------|------------|-------------|-------|---------|--|--|--|--|
| Degree of vision | Total | Ophthal- mologist or EENT | Other M.D. | Optometrist | Other | Unknown | | | | |
| | Number | | | | | | | | | |
| Total, all vision groups | 5,571 | 5,120 | 140 | 231 | 24 | 56 | | | | |
| Absolute blindness | 362 | 293 | 37 | 18 | 3 | 11 | | | | |
| Light perception | 486 | 439 | 14 | 30 | 1 | 2 | | | | |
| Light projection | 56 | 53 | 2 | 1 | _ | | | | | |
| Less than 5/200 | 934 | 892 | . 14 | 26 | 1 | | | | | |
| 5/200 but less than 10/200 | 605 | 572 | 8 | 23 | | 2 | | | | |
| 10/200 but less than 20/200 | 977 | 891 | 19 | 63 | 3 | 1 | | | | |
| 20/200 | 1,547 | 1,458 | 25 | 56 | 1 | 7 | | | | |
| Field restriction | 318 | 304 | 3 | 4 | - | 7 | | | | |
| Unknown | 287 | 218 | 18 | 10 | 15 | 26 | | | | |
| | Percent | | | | | | | | | |
| Total, all vision groups | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | | | | |
| Absolute blindness | 6.5 | 5.7 | 26.4 | 7.8 | 12.5 | 21.4 | | | | |
| Light perception | 8.7 | 8.6 | 10.0 | 13.0 | 4.2 | 1.8 | | | | |
| Light projection | 1.0 | 1.0 | 1.4 | 0.4 | 0 | ;O | | | | |
| Less than 5/200 | 16.8 | 17.4 | 10.0 | 11.3 | 4.2 | .0 | | | | |
| 5/200 but less than 10/200 | 10.9 | 11.2 | 5.7 | 100 | 0 | 3.6 | | | | |
| 10/200 but less than 20/200 | 17.5 | 17.4 | 136 | 27.3 | 12.5 | 1.8 | | | | |
| 20/200 | 27.8 | 28.5 | 17.9 | 24.2 | 4.2 | 12.5 | | | | |
| Field restriction | 5.7 | 5.9 | 2.1 | 1.7 | (0) | 12.5 | | | | |
| Unknown | 5.2 | 4.3 | 12.9 | 4.3 | 62.5 | 46.4 | | | | |

Among those first additions examined by physicians other than eye specialists, about one-

third were reported to have a degree of vision equal to or less than light projection.

TABLE 11.—First additions to register by major affection groups: each MRA State and MRA total, 1965 (number and percent)

[Exclusive of South Dakota. Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists.]

| | | | | | N | Iajor aff | ection gro | ups (and | rubrics) | | | | | |
|----------------|-------|---|--|---|---|------------------------------|--------------------------------|---|------------------------------------|---|---|-----------------------------|---------------------|--|
| State | Total | Glau- coma, other than con- genital 111- 113 | My- opia 140 | Kera- titis 310, 311, 315- 319 | Other affections of cornea or sclera 314, 330-390 | Cata- ract 411- 413 | Uveitis 510, 520, 570 | Retro- lental fibro- plasia 630 | Retinal degeneration 650, 660, 670 | Other retinal affections 610, 615, 640, 690 | Optic nerve atro- phy 710, 720 | Multiple affections 951-979 | Un- known 990 | Resid- ual All other codes |
| | | | <u>' </u> | | | | Nun | ıber | | | | | | |
| MRA total | 5,120 | 565 | 139 | 51 | 99 | 1,088 | 201 | 48 | 879 | 712 | 296 | 355 | 181 | 506 |
| Connecticut | 279 | 30 | 8 | 5 | 2 | 28 | 12 | 5 | 51 | 76 | 16 | 7 | 4 | 35 |
| Kansas | 316 | 29 | 2 | 3 | 6 | 113 | 10 | 1 | 41 | 38 | 20 | 25 | 8 | 20 |
| Louisiana | 386 | 60 | 9 | 5 | 10 | 72 | 24 | 4 | 45 | 32 | 33 | 16 | 10 | 66 |
| Massachusetts | 839 | 81 | 21 | 6 | 15 | 69 | 16 | 2 | 212 | 173 | 32 | 131 | 30 | 51 |
| New Hampshire | 107 | 10 | 2 | - | 1 | 20 | 4 | 1 | 19 | 24 | 3 | 4 | 4 | 15 |
| New Jersey | 644 | 83 | 26 | 7 | 11 | 101 | 27 | 7 | 76 | 107 | 56 | 39 | 38 | 66 |
| New Mexico | 162 | 5 | 7 | 1 | 8 | 79 | 1 | | 17 | 8 | 2 | 18 | 7 | 9 |
| North Carolina | 1,203 | 159 | 30 | 10 | 19 | 402 | 51 | 8 | 155 | 96 | 65 | 58 | 49 | 101 |
| Oregon | 400 | 27 | 8 | 6 | 8 | 75 | 17 | 8 | 91 | 52 | 22 | 29 | 7 | 50 |
| Rhode Island | 88 | 3 | 4 | | 2 | 8 | 1 | 4 | 17 | 25 | 6 | 4 | | 14 |
| Utah | 140 | 11 | 2 | 2 | 4 | 12 | 8 | - | 61 | 16 | 10 | 2 | 2 | 10 |
| Vermont | 65 | 4 | 5 | | _ | 14 | 1 | 1 | 17 | 12 | 1 | 5 | | 5 |
| Virginia | 491 | 63 | 15 | 6 | 13 | 95 | 29 | 7 | 77 | 53 | 30 | 17 | 22 | 64 |
| | | I | 1 | | ! | 1 | Perc | ent | 1 | 1 | <u> </u> | <u> </u> | I | |
| MRA total | 100.0 | 11.0 | 2.7 | 1.0 | 1.9 | 21.3 | 3.9 | 0.9 | 17.2 | 13.9 | 5.8 | 6.9 | 3.5 | 9.9 |
| Connecticut | 100.0 | 10.8 | 2.9 | 1.8 | 0.7 | 10.0 | 4.3 | 1.8 | 18.3 | 27.2 | 5.7 | 2.5 | 1.4 | 12.5 |
| Kansas | 100.0 | 9.2 | 0.6 | 0.9 | 1.9 | 35.8 | 3.2 | 0.3 | 13.0 | 12.0 | 6.3 | 7.9 | 2.5 | 6.3 |
| Louisiana | 100.0 | 15.5 | 2.3 | 1.3 | 2.6 | 18.7 | 6.2 | 1.0 | 11.7 | 8.3 | 8.5 | 4.1 | 2.6 | 17.1 |
| Massachusetts | 100.0 | 9.7 | 2.5 | 0.7 | 1.8 | 8.2 | 1.9 | 0.2 | 25.3 | 20.6 | 3.8 | 15.6 | 3.6 | 6.1 |
| New Hampshire | 100.0 | 9.3 | 1.9 | 0 | 0.9 | 18.7 | 3.7 | 0.9 | 17.8 | 22.4 | 2.8 | 3.7 | 3.7 | 14.0 |
| New Jersey | 100.0 | 12.9 | 4.0 | 1.1 | 1.7 | 15.7 | 4.2 | 1.1 | 11.8 | 16.6 | 8.7 | 6.1 | 5.9 | 10.2 |
| New Mexico | 100.0 | 3.1 | 4.3 | 0.6 | 4.9 | 48.8 | 0.6 | 0 | 10.5 | 4.9 | 1.2 | 11.1 | 4.3 | 5.6 |
| North Carolina | 100.0 | 13.2 | 2.5 | 0.8 | 1.6 | 33.4 | 4.2 | 0.7 | 12.9 | 8.0 | 5.4 | 4.8 | 4.1 | 8.4 |
| Oregon | 100.0 | 6.8 | 2.0 | 1.5 | 2.0 | 18.8 | 4.3 | 2.0 | 22.8 | 13.0 | 5.5 | 7.3 | 1.8 | 12.5 |
| Rhode Island | 100.0 | 3.4 | 4.5 | 0 | 2.3 | 9.1 | 1.1 | 4.5 | 19.3 | 28.4 | 6.8 | 4.5 | 0 | 15.9 |
| Utah | 100.0 | 7.9 | 1.4 | 1.4 | 2.9 | 8.6 | 5.7 | 0 | 43.6 | 11.4 | 7.1 | 1.4 | 1.4 | 7.1 |
| Vermont | 100.0 | 6.2 | 7.7 | 0 | 0 | 21.5 | 1.5 | 1.5 | 26.2 | 18.5 | 1.5 | 7.7 | 0 | 7.7 |
| Virginia | 100.0 | 12.8 | 3.1 | 1.2 | 2.6 | 19.3 | 5.9 | 1.4 | 15.7 | 10.8 | 6.1 | 3.5 | 4.5 | 13.0 |
| | | | | | | | | | | | | | | |

¹ Standard Classification of Causes of Severe Vision Impairment and Blindness, 1965 Revision.

These data relate only to those first additions examined by ophthalmologists or EENT specialists. The affection groups in which blind persons were most frequently classified were cataract (21.3 percent), retinal degeneration (17.2 percent), other retinal affections (13.9 percent), and glaucoma (11.0 percent). It should be noted that the proportions for cataract, other retinal affections and glaucoma are smaller than those reported last year. This can be partially explained by

considering the new major affection group which is multiple affections. For the 13 States tabulated, the percentage of first additions classified with cataracts ranged from some 8 percent in Massachusetts to about 49 percent in New Mexico. Interstate variations for this and other affection groups may be explained in part by the reasons indicated in the General Notes. Retrolental fibroplasia was reported for 1 percent of all first additions examined by medical eye specialists.

TABLE 12.—First additions to register by race, sex and major affection groups: MRA total, 1965 (number and percent)

[Exclusive of South Dakota. Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists.]

| | | | | | N | Aajor aff | ection gro | oups (and | rubrics) | 1 | | | | |
|--------------------------------|-------|---|--------------------|---|---|------------------------------|--------------------------------|---|------------------------------------|---|---|-----------------------------|---------------------|--|
| Race and sex | Total | Glau- coma, other than con- genital 111- 113 | My- opia 140 | Kera- titis 310, 311, 315- 319 | Other affec- tions of cornea or sclera 314, 330- 390 | Cata- ract 411- 413 | Uveitis 510, 520, 570 | Retro- lental fibro- plasia 630 | Retinal degeneration 650, 660, 670 | Other retinal affections 610, 615, 640, 690 | Optic nerve atro- phy 710, 720 | Multiple affections 951-979 | Un- known 990 | Resid- ual All other codes |
| | | | , | | | | Num | ıber | | | | | | |
| Total, all races Male Female | 5,120 | 565 | 139 | 51 | 99 | 1,088 | 201 | 48 | 879 | 712 | 296 | 355 | 181 | 506 |
| | 2,392 | 265 | 82 | 18 | 48 | 461 | 107 | 30 | 381 | 302 | 171 | 143 | 91 | 293 |
| | 2,728 | 300 | 57 | 33 | 51 | 627 | 94 | 18 | 498 | 410 | 125 | 212 | 90 | 213 |
| White | 3,691 | 299 | 100 | 36 | 66 | 801 | 126 | 34 | 757 | 563 | 191 | 254 | 124 | 340 |
| Male | 1,724 | 139 | 55 | 13 | 29 | 348 | 72 | 23 | 328 | 256 | 110 | 102 | 60 | 189 |
| Female | 1,967 | 160 | 45 | 23 | 37 | 453 | 54 | 11 | 429 | 307 | 81 | 152 | 64 | 151 |
| Nonwhite | 1,050 | 235 | 24 | 11 | 25 | 243 | 60 | 6 3 3 | 53 | 104 | 78 | 59 | 33 | 119 |
| Male | 484 | 112 | 17 | 3 | 14 | 94 | 24 | | 27 | 28 | 44 | 28 | 14 | 76 |
| Female | 566 | 123 | 7 | 8 | 11 | 149 | 36 | | 26 | 76 | 34 | 31 | 19 | 43 |
| Unknown | 379 | 31 | 15 | 4 | 8 | 44 | 15 | 8 | 69 | 45 | 27 | 42 | 24 | 47 |
| | 184 | 14 | 10 | 2 | 5 | 19 | 11 | 4 | 26 | 18 | 17 | 13 | 17 | 28 |
| | 195 | 17 | 5 | 2 | 3 | 25 | 4 | 4 | 43 | 27 | 10 | 29 | 7 | 19 |
| | | | | | | | Perc | ent | , | | | | | |
| Total, all races Male Female | 100.0 | 11.0 | 2.7 | 1.0 | 1.9 | 21.3 | 3.9 | 0.9 | 17.2 | 13.9 | 5.8 | 6.9 | 3.5 | 9.9 |
| | 100.0 | 11.1 | 3.4 | 0.8 | 2.0 | 19.3 | 4.5 | 1.3 | 15.9 | 12.6 | 7.1 | 6.0 | 3.8 | 12.2 |
| | 100.0 | 11.0 | 2.1 | 1.2 | 1.9 | 23.0 | 3.4 | 0.7 | 18.3 | 15.0 | 4.6 | 7.8 | 3.3 | 7.8 |
| White | 100.0 | 8.1 | 2.7 | 1.0 | 1.8 | 21.7 | 3.4 | 0.9 | 20.5 | 15.3 | 5.2 | 6.9 | 3.4 | 9.2 |
| Male | 100.0 | 8.1 | 3.2 | 0.8 | 1.7 | 20.2 | 4.2 | 1.3 | 19.0 | 14.8 | 6.4 | 5.9 | 3.5 | 11.0 |
| Female | 100.0 | 8.1 | 2.3 | 1.2 | 1.9 | 23.0 | 2.7 | 0.6 | 21.8 | 15.6 | 4.1 | 7.7 | 3.3 | 7.7 |
| Nonwhite | 100.0 | 22.4 | 2.3 | 1.0 | 2.4 | 23.1 | 5.7 | 0.6 | 5.0 | 9.9 | 7.4 | 5.6 | 3.1 | 11.3 |
| | 100.0 | 23.1 | 3.5 | 0.6 | 2.9 | 19.4 | 5.0 | 0.6 | 5.6 | 5.8 | 9.1 | 5.8 | 2.9 | 15.7 |
| | 100.0 | 21.7 | 1.2 | 1.4 | 1.9 | 26.3 | 6.4 | 0.5 | 4.6 | 13.4 | 6.0 | 5.5 | 3.4 | 7.6 |

¹ Standard Classification of Causes of Severe Vision Impairment and Blindness, 1965 Revision.

These data relate only to those first additions examined by ophthalmologists or EENT specialists. There were no appreciable differences between the sexes according to major affection groups, although there was a somewhat larger proportion of males than females in each of the two affection groups, "optic nerve atrophy" and "residual." A comparison of races, however,

showed marked differences for three major affections. These were glaucoma, affecting about 8 percent of the whites compared with 22 percent of the nonwhites; retinal degeneration, affecting 21 percent of the whites compared with 5 percent of the nonwhites; and other retinal affections, affecting 15 percent of the whites compared with 10 percent of the nonwhites.

| | | | | | N | Aajor aff | ection gro | oups (and | rubrics) | 1 | | | | |
|----------------------|--------------|---|--------------------|---|---|------------------------------|--------------------------------|---|---|---|---|-----------------------------|--|--|
| Age | Total | Glau- coma, other than con- genital 111- 113 | My- opia 140 | Kera- titis 310, 311, 315- 319 | Other affections of cornea or sclera 314, 330-390 | Cata- ract 411- 413 | Uveitis 510, 520, 570 | Retro- lental fibro- plasia 630 | Retinal degen- eration 650, 660, 670 | Other retinal affections 610, 615, 640, 690 | Optic nerve atro- phy 710, 720 | Multiple affections 951-979 | Un- known 990 | Resid- ual All other codes |
| | | | | | | | Nun | nber | | | | | <u>' </u> | |
| Total, all ages | 5,120 | 565 | 139 | 51 | 99 | 1,088 | 201 | 48 | 879 | 712 | 296 | 355 | 181 | 506 |
| Under 5 | 111 | _ | _ | 1 | 1 | 30 | 7 | 6 | 3 | 9 | 14 | 1 | 7 | 32 |
| 5 to 19 | 523 | 1 | 44 | 2 | 6 | 74 | 26 | 40 | 42 | 22 | 58 | 1 | 16 | 191 |
| 20 to 44 | 568 | 17 | 20 | 7 | 24 | 48 | 45 | 2 | 92 | 99 | 81 | 12 | 20 | 101 |
| 45 to 64 65 to 74 | 1,314 785 | 169 134 | 44 | 19 | 27 | 255 193 | 72 21 | _ | 132 | 306 | 85 | 67 | 47 | 91 |
| 75 to 84 | 1,081 | 153 | 11 8 | 12 5 | 15 14 | 314 | 14 | | 112 294 | 141 | 23 16 | 66 | 24 31 | 33 |
| 85 and over | 489 | 50 | 3 | 3 | 8 | 147 | 8 | | 168 | 15 | 5 | 54 | 14 | 29 14 |
| Unknown | 249 | 41 | 9 | 2 | 4 | 27 | . 8 | | 36 | . 39 | 14 | 32 | 22 | 15 |
| | | | | | | | | | | | | | | |
| | | | | | | | Perc | ent | | | | | | |
| Total, all ages | 100.0 | 11.0 | 2.7 | 1.0 | 1.9 | 21.3 | 3.9 | 0.9 | 17.2 | 13.9 | 5.8 | 6.9 | 3.5 | 9.9 |
| Under 5 | 100.0 | 0 | 0 | 0.9 | 0.9 | 27.0 | 6.3 | 5.4 | 2.7 | 8.1 | 12.6 | 0.9 | 6.3 | 28.8 |
| 5 to 19 | 100.0 | 0.2 | 8.4 | 0.4 | 1.1 | 14.1 | 5.0 | 7.6 | 8.0 | 4.2 | 11.1 | 0.2 | 3.1 | 36.5 |
| 20 to 44 | 100.0 | 3.0 | 3.5 | 1.2 | 4.2 | 8.5 | 7.9 | 0.4 | 16.2 | 17.4 | 14.3 | 2.1 | 3.5 | 17.8 |
| 45 to 64 | 100.0 | 12.9 | 3.3 | 1.4 | 2.1 | 19.4 | 5.5 | 0 | 10.0 | 23.3 | 6.5 | 5.1 | 3.6 | 6.9 |
| 65 to 74 | 100.0 | 17.1 | 1.4 | 1.5 | 1.9 | 24.6 | 2.7 | 0 | 14.3 | 18.0 | 2.9 | 8.4 | 3.1 | 4.2 |
| 75 to 84 | 100.0 | 14.2 | 0.7 | 0.5 | 1.3 | 29.0 | 1.3 | 0 | 27.2 | 7.5 | 1.5 | 11.3 | 2.9 | 2.7 |
| 85 and over | 100.0 | 10.2 | 0.6 | 0.6 | 1.6 | 30.1 | 1.6 | 0 | 34.4 | 3.1 | 1.0 | 11.0 | 2.9 | 2.9 |
| | | | | | | | | | | | | | | |

¹ Standard Classification of Causes of Severe Vision Impairment and Blindness, 1965 Revision.

These data relate only to those first additions examined by ophthalmologists or EENT specialists. In general, higher proportions of glaucoma, cataract, and retinal degeneration were reported among new registrants in the older age groups than in the younger age groups. Cataract was the most frequently reported affection in the two age groups 65 through 74 years and 75 through 84 years. The "other retinal affections" category was more common among persons in the age groups from 20 through 74 years than in

the age groups above or below that span of years. The percent with optic nerve atrophy was relatively high in the age groups under 45 compared with the older age groups. One-fourth of the new registrants under 45 years of age were represented in the "residual" group. The 42 cases of retrolental fibroplasia reported among persons 5 years of age or over probably represent delayed reporting of blindness since this affection is known to appear shortly after birth.

TABLE 14.—First additions to register by degree of vision and major affection groups: MRA total, 1965 (number and percent)
[Exclusive of South Dakota. Data limited to first additions examined by ophthalmologists or eve-ear-nose-throat specialists.]

| | | | | | N | lajor affe | ection gro | oups (and | rubrics) | 1 | | | | |
|--|--------------|---|--------------------|---|---|------------------------------|--------------------------------|---|---|---|---|---|---|--|
| Degree of vision | Total | Glau- coma, other than con- genital 111- 113 | My- opia 140 | Kera- titis 310, 311, 315- 319 | Other affections of cornea or sclera 314, 330-390 | Cata- ract 411- 413 | Uveitis 510, 520, 570 | Retro- lental fibro- plasia 630 | Retinal degen- eration 650, 660, 670 | Other retinal affections 610, 615, 640, 690 | Optic nerve atro- phy 710, 720 | Mul- tiple affec- tions 951- 979 | Un- known 990 | Resid- ual All other codes |
| | | | | | | | | Numbe | r | | | | | |
| Total, all vision groups | 5,120 | 565 | 139 | 51 | 99 | 1,088 | 201 | 48 | 879 | 712 | 296 | 355 | 181 | 506 |
| Absolute blindness Light perception | 293 439 | 49 69 | 2 | 6 4 | 5 7 | 21 119 | 9 | 12 | 11 34 | 48 68 | 33 27 | 7 30 | 17 17 | 73 39 |
| Light projection Less than 5/200 5/200 but less than | 53 892 | 2 83 | 12 | 10 | 2 20 | 19 238 | 1 37 | 1 4 | 3 131 | 13 174 | 4 38 | 6 66 | 1 24 | 1 55 |
| 10/200 but less than 10/200 but less than | 572 | 31 | 8 | 4 | 9 | 114 | 21 | 8 | 132 | 107 | 37 | 48 | 16 | 37 |
| 20/200 20/200 | 891 1,458 | 61 | 31 75 | 11 14 | 21 28 | 184 333 | 41 58 | 10 | 204 272 | 121 157 | 49 72 | 68 103 | 25 49 | 73 177 |
| Field restriction Unknown | 304 218 | 137 23 | 4 7 | 1 1 | 3 | 51 | 5 10 | 1 4 | 70 22 | 9 15 | 21 15 | 17 | 10 22 | 16 35 |
| | | · <u>'</u> | <u>'</u> | | ' | | Perc | ent | | | ' | | 1 | |
| Total, all vision groups | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Absolute blindness Light perception | 5.7 8.6 | 8.7 12.2 | 1.4 | 11.8 | 5.1 | 1.9 | 4.5 | 25.0 12.5 | 1.3 | 6.7 | 11.1 | 2.0 | 9.4 | 14.4 |
| Light projection Less than 5/200 | 1.0 | 0.4 | 8.6 | 0 19.6 | $\begin{vmatrix} 2.0 \\ 20.2 \end{vmatrix}$ | 1.7 21.9 | 0.5 | 2.1 | 0.3 | 1.8 | 1.4 | 1.7 | 0.6 | 0.2 |
| 5/200 but less than 10/200 10/200 but less than | 11.2 | 5.5 | 5.8 | 7.8 | 9.1 | 10.5 | 10.4 | 16.7 | 15.0 | 15.0 | 12.5 | 13.5 | 8.8 | 7.3 |
| 20/200 | 17.4 28.5 | 10.8 | 22.3 54.0 | 21.6 27.5 | 21.2 28.3 | 16.9 | 20.4 28.9 | 4.2 20.8 | 23.2 | 17.0 | 16.6 24.3 | 19.2 | 13.8 27.1 | 14.4 35.0 |
| Field restriction Unknown | 5.9 4.3 | 24.2 | 2.9 5.0 | 2.0 | 3.0 | 0.8 | 2.5 5.0 | 2.1 8.3 | 8.0 2.5 | 1.3 | 7.1 5.1 | 4.8 2.8 | $\begin{bmatrix} 5.5 \\ 12.2 \end{bmatrix}$ | 3.2 6.9 |

¹ Standard Classification of Causes of Severe Vision Impairment and Blindness, 1965 Revision.

These data relate only to those first additions examined by ophthalmologists or EENT specialists. Except for retrolental fibroplasia, other retinal affections, and glaucoma the 20/200 visual acuity category accounted for the largest proportion of each of the major affection groups. (See comments for Table 5 regarding 20/200 acuity.) Among persons with retrolental fibro-

plasia, 25 percent were reported as totally blind and 13 percent had only light perception. About 24 percent of the persons with glaucoma had visual acuity better than 20/200 but with visual field restricted to 20 degrees or less. This is perhaps to be expected since a contracted field is usually found in advanced glaucoma.

TABLE 15.—First additions to register by major etiology groups: each MRA State and MRA total, 1965 (number and percent)

| | | | | | Major et | tiology gro | oups (and r | ubrics) 1 | | | | |
|--------------------|----------------|---------------------------------|---|-----------------------------------|----------------|---------------------------------------|---|--|--|--|-----------------------------------|---|
| State | Total | Infectious diseases 11.00-29.20 | Injuries, poison- ings 31.01- 49.19 | Neo- plasms 51.00- 59.00 | Diabetes 62.10 | Senile degen- ceration 62.20 | Vascular diseases 64.10, 64.90 | Other general diseases 61.00, 62.30-63.00, 65.10-78.00 | Prenatal influence 80.10- 89.00 | Multiple etiol- ogies 95.01- 95.99 | Unknown to science 91.00 | Not reported or deter- mined 99.00 |
| | | | | | | Nur | nber | | | | | |
| MRA total | 5,120 | .107 | 159 | 7,3 | 555 | .853 | 143 | , 7 3. | 752 | 252 | 724 | 1,429 |
| Connecticut | .279 | .5 | 16 | 3 | .52 | .55 | :21 | .8 | .47 | : 6 | 35 | .31 |
| Kansas | 316 | 5 | 10 | .2 | 26 | 119 | .4 | . 3 | 21 | :19 | 34 | 73 |
| Louisiana | 386 | 111 | 17 | 10 | 25 | 45 | 77 | 14 | -81 | 16 | 663 | :97 |
| Massachusetts | 839 | 19 | 10 | .8 | 151 | 127 | 25 | :8 | 91 | 100 | 111 | 189 |
| New Hampshire | 107 | 2 | 1 | 2 | 119 | _23 | 2 | 1 | 14 | 2 | 10 | 31 |
| New Jersey | 644 | 17 | 20 | 16 | 82 | 48 | 17 | 13 | 105 | 28 | 110 | 188 |
| New Mexico | 162 | 3 | 1 | 1 | 4 | 43 | 2 | 1 | .8 | 5 | 16 | 78 |
| North Carolina | 1,203 | 19 | 29 | 13 | 72 | 188 | .33 | 8 | 159 | .40 | 193 | 449 |
| Oregon | 400 | 12 | 18 | 6 | 33 | 82 | 16 | 9 | 72 | 19 | 41 | 92 |
| Rhode Island | 88 | _ | 7 | .3 | 24 | 11 | .4 | | 19 | 2 | .7 | 11 |
| Utah | 140 | 2 | 4 | 2 | 14 | .30 | 2 | :5 | 14 | | 18 | 49 |
| Vermont | 65 | . 1 | 4 | 1: | 11 | 9 | 2 | | 13 | 4 | 8 | 12 |
| Virginia | 491 | 11 | 22 | 6 | 42 | 73 | 8 | '3 | 108 | 11 | .78 | 129 |
| | | 1 | | | | Per | cent | | | | | |
| MRA total | 100.0 | 2.1 | 3.1 | 1.4 | 10.8 | 167 | 2.8 | 1.4 | 14.7 | 4.9 | 14.1 | 27.9 |
| | | | | | | | | | | | | |
| Connecticut | 100.0 | 1.8 | 5.7 | 1.1 | 18.6 | 19.7 | 7.5 | 2.9 | 16.8 | 2.2 | 12.5 | 111 |
| Kansas | 100.0 | 1.6 | 3.2 | 0.6 | 8.2 | 37.7 | 1.3 | 0.9 | 6.6 | 6.0 | 10.8 | 231 |
| Louisiana | 100.0 | 2.8 | 4.4 | 2.6 | 6.5 | 11.7 | 1.8 | 3.6 | 21.0 | 4.1 | 16.3 | 25.1 |
| Massachusetts | 100.0 | 2.3 | 1.2 | 1.0 | 18.0 | 15.1 | 3.0 | 1.0 | 10.8 | 11.9 | 13.2 | 22.5 |
| New Hampshire | 100.0 | 1.9 | 0.9 | 1.9 | 17.8 | 21.5 | 1.9 | 0.9 | 13.1 | 1.9 | 9.3 | 29.0 |
| New Jersey | 100.0 | 2.6 | 3.1 | 2.5 | 12.7 | 7.5 | 2.6 | 2.0 | 16.3 | 4.3 | 17.1 | 29.2 |
| New Mexico | 100.0 | 1.9 | 0.6 | 0.6 | 2.5 | 26.5 | 1.2 | 0.6 | 4.9 | 3.1 | 9.9 | 48.1 |
| North Carolina | 100.0 | 1.6 | 2.4 | 1.1 | 6.0 | 15.6 | 2.7 | 0.7 | 13.2 | 3.3 | 16.0 | 37.3 |
| | 100.0 | 3.0 | 4.5 | 1.5 | 8.3 | 20.5 | 4.0 | 2.3 | 18.0 | 4.8 | 10.3 | 2 3.0 |
| Oregon | | | 0.0 | 3.4 | 27.3 | 12.5 | 4.5 | 0 | 21.6 | 2.3 | 8.0 | 12.5 |
| OregonRhode Island | 100.0 | 0 | 8.0 | 0.4 | | | | | | | | |
| | 100.0 100.0 | 0 1.4 | 2.9 | 1.4 | 10.0 | 21.4 | 1.4 | 3.6 | 10.0 | 0 | 12.9 | 35.0 |
| Rhode Island | | | | | | 21.4 13.8 | 1.4 3.1 | 3.6 | 10.0 20.0 | 0 6.2 | 12.9 12.3 | 35.0 18.5 |

¹ Standard Classification of Causes of Severe Vision Impairment and Blindness, 1965 Revision.

These data relate only to those first additions examined by ophthalmologists or EENT specialists. The etiology category "senile degeneration" accounted for 16.7 percent of first additions reported by medical eye specialists, ranging from 7.5 percent in New Jersey to 37.7 percent in Kansas. About 15 percent of the total MRA were classified to an etiology of prenatal influence. The percent of reported blindness due to diabetes,

about 11 percent for the MRA as a whole, varied from a low 2.5 percent in New Mexico to a high of 27.3 percent in Rhode Island. For the total MRA, about 14 percent of the additions were classified to an etiology of "unknown to science" and 28 percent were "not reported or determined." In the "multiple etiologies" category Massachusetts accounted for 100 of the 252 that were reported in the MRA.

TABLE 16.—First additions to register by race, sex and major etiology groups: MRA total, 1965 (number and percent)

| | | 120 | | | | | | | | | | | | | |
|------------------------------------|-------------------------|-----------------------------|---------------------------|-------------------|----------------------|----------------------|--------------------|---|----------------------|---------------------------|----------------------|-----------------------------------|--|--|--|
| Race and sex | Total | tious diseases 11.00- | poison- ings 31.01- | plasms 51.00- | | degen- eration | diseases 64.10, | general diseases 61.00, 62.30- 63.00, 65.10- | influence 80.10- | etiol- ogies 95.01- | to science | reported or deter- mined | | | |
| | | | | | | Num | ber | | | | | | | | |
| Total, all races Male Female | 5,120 2,392 2,728 | 53 | 114 | 31 | 205 | 331 | 70 | 37 | 416 | 103 | 350 | 1,429 682 747 | | | |
| White Male Female | 3,691 1,724 1,967 | 34 | 73 | 22 | 175 | 276 | 52 | 19 | 292 | 71 | 208 | 1,039 502 537 | | | |
| Nonwhite Male Female | 1,050 484 566 | 14 | 30 | 6 | 18 | 42 | 14 | 15 | 80 | 23 | 121 | 284 121 163 | | | |
| Unknown Male Female | 379 184 195 | 5 | 11 | | 12 | 13 | 4 | 3 | 44 | 9 | 21 | 106 59 47 | | | |
| | | 1 | ı | | | Per | cent | | | | | | | | |
| Total, all races Male Female | 100.0 100.0 100.0 | 2.1 2.2 2.0 | 3.1 4.8 1.6 | 1.4 1.3 1.5 | 10.8 8.6 12.8 | 16.7 13.8 19.1 | 2.8 2.9 2.7 | 1.4 1.5 1.3 | 14.7 17.4 12.3 | 4.9 4.3 5.5 | 14.1 14.6 13.7 | 27.9 28.5 27.4 | | | |
| White Male Female | 100.0 100.0 100.0 | 2.0 2.0 1.9 | 2.7 4.2 1.4 | 1.5 1.3 1.7 | 11.7 10.2 13.0 | 19.2 16.0 21.9 | 2.8 3.0 2.6 | 1.3 1.1 1.4 | 14.2 16.9 11.8 | 4.9 4.1 5.6 | 11.6 12.1 11.3 | 28.1 29.1 27.3 | | | |
| Nonwhite Male Female | 100.0 100.0 100.0 | 2.5 2.9 2.1 | 3.9 6.2 1.9 | 1.3 1.2 1.4 | 8.5 3.7 12.5 | 10.0 8.7 11.1 | 2.7 2.9 2.5 | 2.0 3.1 1.1 | 13.6 16.5 11.1 | 4.5 4.8 4.2 | 24.0 25.0 23.1 | 27.0 25.0 28.8 | | | |

¹ Standard Classification of Causes of Severe Vision Impairment and Blindness, 1965 Revision.

These data relate only to those first additions examined by ophthalmologists or EENT specialists. The percent of males whose etiology was "injuries and poisonings" was somewhat higher than the corresponding percent among females for each race group. A similar pattern also held for the "prenatal influence" category. The percent of females with an etiology of "diabetes" was higher than the corresponding percent for males, particularly among the nonwhites. The

difference may be due in part to higher morbidity from diabetes for females in the general population. The proportion of whites with an etiology of "senile degeneration" was appreciably higher than the corresponding proportion for nonwhites. Except for "not reported or determined," the category "senile degeneration" accounted for the highest proportion for whites while "unknown to science" accounted for the highest proportion of nonwhites.

TABLE 17.—First additions to register by age and major etiology groups: MRA total, 1965 (number and percent)

| | | | | | Major et | ciology gro | oups (and r | ubrics) 1 | | | | |
|-----------------|-------|---|---|-----------------------------------|-------------------|--------------------------------------|---|--|--|--|-----------------------------------|---|
| Age | Total | Infectious diseases 11.00- 29.20 | Injuries, poison- ings 31.01- 49.19 | Neo- plasms 51.00- 59.00 | Diabetes 62,10 | Senile degen- eration 62,20 | Vascular diseases 64.10, 64.90 | Other general diseases 61.00, 62.30-63.00, 65.10-78.00 | Prenatal influence 80,10- 89,00 | Multiple etiol- ogies 95.01- 95.99 | Unknown to science 91.00 | Not reported or deter- mined 99.00 |
| | | | | | | Nun | aber | | · | ' | | |
| Total all ages | 5,120 | 107 | 159 | 73 | 555 | 853 | 143 | 73 | 752 | 252 | 724 | 1,429 |
| Under 5 | 111 | 14 | 9 | 8 | | _ | | 5 | 61 | 1 | | 13 |
| 5 to 19 | 523 | 18 | 54 | 16 | 2 | | 1 | 10 | 331 | | 16 | 75 |
| 20 to 44 | 568 | 14 | 42 | 25 | 84 | 5 | 5 | 29 | 171 | 5 | 41 | 147 |
| 45 to 64 | 1,314 | 39 | 37 | 15 | 271 | 110 | 39 | 18 | 128 | 47 | 223 | 387 |
| 65 to 74 | 785 | 13 | 9 | 5 | 124 | 152 | 34 | 5 | 24 | 53 | 149 | 217 |
| 75 to 84 | 1,081 | 3 | 2 | 1 | 39 | 349 | 48 | _ | 15 | 92 | 184 | 348 |
| 35 and over | 489 | 3 | 1 | | 5 | 209 | 12 | 4 | 3 | 30 | 62 | 160 |
| Unknown | 249 | 3 | 5 | 3 | 30 | 28 | 4 | 2 | 19 | 24 | 49 | . 82 |
| | | r | 1 | | 1 | Per | cent | | | | 1 | |
| Total, all ages | 100.0 | 2.1 | 3.1 | 1.4 | 10.8 | 16.7 | 2.8 | 1.4 | 14.7 | 4.9 | 14.1 | 27.9 |
| Under 5 | 100.0 | 12.6 | 8.1 | 7.2 | 0 | 0 | 0 | 4.5 | 55.0 | 0.9 | 0 | 11.7 |
| 5 to 19 | 100.0 | 3.4 | 10.3 | 3.1 | 0.4 | 0 | 0.2 | 1.9 | 63.3 | 0 | 3.1 | 14.3 |
| 20 to 44 | 100.0 | 2.5 | 7.4 | 4.4 | 14.8 | 0.9 | 0.9 | 5.1 | 30.1 | 0.9 | 7.2 | 25.9 |
| 45 to 64 | 100.0 | 3.0 | 2.8 | 1.1 | 20.6 | 8.4 | 3.0 | 1.4 | 9.7 | 3.6 | 17.0 | 29.5 |
| 65 to 74 | 100.0 | 1.7 | 1.1 | 0.6 | 15.8 | 19.4 | 4.3 | 0.6 | 3.1 | 6.8 | 19.0 | 27.6 |
| 75 to 84 | 100.0 | 0.3 | 0.2 | 0.1 | 3.6 | 32.3 | 4.4 | 0 | 1.4 | 8.5 | 17.0 | 32.2 |
| 85 and over | 100.0 | 0.6 | 0.2 | 0 | 1.0 | 42.7 | 2.5 | .0.8 | 0.6 | 6.1 | 12.7 | 32.7 |

¹ Standard Classification of Causes of Severe Vision Impairment and Blindness, 1965 Revision.

These data relate only to those first additions examined by ophthalmologists or EENT specialists. Among persons under 45 years of age, by far the most frequently reported etiology of blindness was "prenatal influence." "Injuries and poisonings" was also relatively common in this age span and accounted for 18 percent of all blindness in persons under 20 years. "Diabetes"

was of particular etiological significance in the age groups from 20 through 74 years and was responsible for about 21 percent of blindness in the 45 through 64 year age group. From age 65 years on, the three largest etiology groups were "senile degeneration," "unknown to science," and "not reported or determined."

TABLE 18.—First additions to register by degree of vision and major etiology groups: MRA total, 1965 (number and percent)

| | | | | | Major e | tiology gro | oups (and a | rubrics) 1 | | | | |
|-------------------------------------|------------|---------------------------------|---|-----------------------------------|--|--------------------------------------|---|--|--|--|-----------------------------------|---|
| Degree of vision | Total | Infectious diseases 11.00-29.20 | Injuries, poison- ings 31.01- 49.19 | Neo- plasms 51.00- 59.00 | Diabetes 62.10 | Senile degen- eration 62.20 | Vascular diseases 64.10, 64.90 | Other general diseases 61.00, 62.30-63.00, 65.10-78.00 | Prenatal influence 80.10- 89.00 | Multiple etiol- ogies 95.01- 95.99 | Unknown to science 91.00 | Not reported or deter- mined 99.00 |
| | | | | | | Nun | nber | | | | | |
| Total, all vision groups | 5,120 | 107 | · 159 | 73 | 555 | 853 | 143 | 73 | 752 | 252 | 724 | 1,429 |
| Absolute blindness | 293 | 5 | 45 | 24 | 25 | 7 | 10 | 7 | 49 | 6 | 52 | 63 |
| Light perception | 439 | 12 | 25 | -8 | 48 | 51 | 11 | 4 | 42 | 23 | 71 | 144 |
| Light projection | 53 | - | .1 | _ | 7 | - 13 | 4 | 3 | 5 | 6 | 2 | 12 |
| Less than 5/200 5/200 but less than | 892 | 20 | 19 | 9 | 151 | 185 | 26 | 14 | 65 | 47 | 103 | 253 |
| 10/200 out less than | 572 | 114 | :12 | 6 | 84 | 127 | 24 | 8 | 54 | 29 | 47 | 167 |
| 10/200 but less than | 0 | | | | | | | | | | | 10. |
| 20/200 | 891 | :16 | 11 | 9 | 107 | 183 | 20 | 11 | 129 | 49 | 99 | 257 |
| 20/200 | 1,458 | 27 | 32 | 7 | 120 | 264 | 32 | 15 | 274 | 70 | 179 | 438 |
| Field restriction | 304 | 2 | 6 | 7 | 2 | 6 | 12 | 6 | 71 | 14 | 141 | 37 |
| Unknown | 218 | 11 | 8 | 3 | 11 | 17 | 4 | 5 | 63 | 8 | 30 | 58 |
| | | | | | | | | | | | | |
| | | | | | | Pero | cent | | | | | |
| Total, all vision | | | | | | | | | | | | |
| groups | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | .100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Absolute blindness | 5.7 | 4.7 | 28.3 | 32.9 | 4.5 | 0.8 | 7.0 | 9.6 | 6.5 | 2.4 | 7.2 | 4.4 |
| Light perception | 1 | 11.2 | 15.7 | 11.0 | 8.6 | 6.0 | 7.7 | 5.5 | 5.6 | 9.1 | 9.8 | 10.1 |
| Light projection | 1.0 | 0 | 0.6 | 0 | 1.3 | 4.5 | 2.8 | 4.1 | 0.7 | 2.4 | 0.3 | 0.8 |
| Less than 5/200 | 17.4 | 18.7 | 11.9 | 12.3 | 27.2 | .217 | 18.2 | 19.2 | 8.6 | 187 | 14.2 | 17.7 |
| 5/200 but less than | | | | | | | | | | | | |
| 10/200 | 112 | 13.1 | 7.5 | 8.2 | 15.1 | 14.9 | 16.8 | 110 | 7.2 | 11.5 | 6.5 | 11.7 |
| 10/200 but less than | 4 = 4 | 4 11 0 | 0.0 | 10.0 | 10.0 | 01 = | 140 | 4 8 4 | 1 W O | *** | 10 10 | 10.0 |
| 20/200 | | 15.0 | 6.9 | 12.3 | 19.3 | 21.5 | 14.0 | 15.1 | 17.2 | 19.4 | 13.7 | 18.0 |
| 20/200 | 28.5 | 25.2 | 20.1 | .96 | 21.6 | 30.9 | 22.4 | 20.5 | 36.4 | 27.8 | 24.7 | 30.7 |
| Field restrictionUnknown | 5.9 4.3 | 1.9 | 3.8 | 9.6 | $\begin{bmatrix} 0.4 \\ 2.0 \end{bmatrix}$ | $0.7 \\ 2.0$ | $\begin{array}{c} 8.4 \\ 2.8 \end{array}$ | 8.2 6.8 | $9.4 \\ 8.4$ | $\begin{array}{c} 5.6 \\ 3.2 \end{array}$ | 19.5 4.1 | 2.6 4.1 |
| UHKHOWH | 4.0 | 10.5 | 0,.0 | 4t. 1 | 2.0 | 2.0 | 2.0 | 0,.0 | 0.4 | 02 | 4.1 | 4.1 |

¹ Standard Classification of Causes of Severe Vision Impairment and Blindness, 1965 Revision.

These data relate only to those first additions examined by ophthalmologists or EENT specialists. About one-fourth of the persons whose blindness was due to "injuries and poisonings," and almost one-third with an etiology of "neoplasms," had visual acuity of absolute blindness; 44 percent in both categories had visual acuity no greater than light perception. Blindness by

reason of restricted field of vision was relatively most frequent for those where the etiology was classified as "unknown to science," "neoplasms," and "prenatal influence." In most etiology groups, the most frequently reported degree-ofvision category was 20/200, which may largely be explained by reasons mentioned in the comments regarding Table 5.

TABLE 19.—First additions to register by major affection groups and major etiology groups: MRA total, 1965 (number and percent)

| | | | | | Major e | tiology gro | oups (and 1 | ubrics)1 | | ····· | | |
|--|------------|---------------------------------|---|-----------------------------------|-------------------|--------------------------------------|---|--|--|--|-----------------------------------|---|
| Major affection groups (and rubrics) ¹ | Total | Infectious diseases 11.00-29.20 | Injuries, poison- ings 31.01- 49.19 | Neo- plasms 51.00- 59.00 | Diabetes 62.10 | Senile degen- eration 62.20 | Vascular diseases 64.10, 64.90 | Other general diseases 61.00, 62.30-63.00, 65.10-78.00 | Prenatal influence 80.10- 89.00 | Multiple etiol- ogies 95.01- 95.99 | Unknown to science 91.00 | Not reported or deter- mined 99.00 |
| | | | | | · | Nun | nber | | | | | |
| Total, all affections | 5,120 | 107 | 159 | 73 | 555 | 853 | 143 | 73 | 752 | 252 | 724 | 1,429 |
| Glaucoma, other than congenital, 111–113 Myopia, 140 | 565 139 | _ | | _ | | | | _ | 56 | | 565 83 | _ |
| Keratitis, 310, 311, 315–319Other affections of cornea or sclera, 314, | 51 | 33 | 3 | | | entrales | - produced | 4 | | - management | 2 | 9 |
| 330-390 | 99 | 4 | 8 | | | 14 | and the second | 3 | 17 | | 13 | 40 |
| Cataract, 411-413 | 1,088 | 12 | . 6 | | 38 | 412 | | - ī | 119 | | | 500 |
| Uveitis, 510, 520, 570 Retrolental fibroplasia, | 201 | 21 | 8 | | | | | 9 | 18 | | 1 | 144 |
| 630Retinal degeneration, | 48 | | . 48 | | | | _ | | _ | | | |
| 650, 660, 670 Other retinal affections, | 879 | 1 | 2 | | 2 | 387 | 11 | - | 194 | _ | 35 | 247 |
| 610, 615, 640, 690 Optic nerve atrophy, | 712 | 1 | 6. | . 17 | 494 | 7 | 79 | 6 | 20 | | 3 | 79 |
| 710, 720 | 296 | .20 | 22 | 32 | 2 | | 15 | 27 | 34 | | 1 | 143 |
| 951-979 | 355 | 2 | _ | | 15 | 23 | 1 | 1 | | 252 | 2 | 59 |
| Unknown, 990 Residual, All other | 181 | 2 | 5 | 2 | 1 | 2 | 6 | 2 | 8 | | _ | 153 |
| codes | 506 | 1:1 | 51 | 22 | 3 | 8 | 31 | 20 | 286 | _ | 19 | 55 |

See footnote at end of table.

TABLE 19.—First additions to register by major affection groups and major etiology groups: MRA total, 1965 (number and percent)—Continued

| | | | | | Major et | ciology gro | oups (and r | ubrics)1 | | | | |
|--|-------|---------------------------------|---|-----------------------------------|-------------------|--------------------------------------|---|--|--|--|-----------------------------------|---|
| Major affection groups (and rubrics) ¹ | Total | Infectious diseases 11.00-29.20 | Injuries, poison- ings 31.01- 49.19 | Neo- plasms 51.00- 59.00 | Diabetes 62.10 | Senile degen- eration 62.20 | Vascular diseases 64.10, 64.90 | Other general diseases 61.00, 62.30-63.00, 65.10-78.00 | Prenatal influence 80.10- 89.00 | Multiple etiol- ogies 95.01- 95.99 | Unknown to science 91.00 | Not reported or deter- mined 99.00 |
| | | | | | | Pero | ent | | | | | |
| Total, all affections | 100.0 | 2.1 | 3.1 | 1.4 | 10.8 | 16.7 | 2.8 | 1.4 | 14.7 | 4.9 | 14.1 | 27.9 |
| Glaucoma, other than | | | | | | | | | | | | |
| congenital, 111-113 | 11.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11.0 | . 0 |
| Myopia, 140 | 2.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.1 | 0 | 1.6 | 0 |
| Keratitis, 310, 311, | | | | | | | | | | | | |
| 315-319 | 1.0 | 0.6 | 0.1 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 | 0.0 | 0.2 |
| Other affections of cornea or sclera, 314, | | | | | | | | | | | | |
| 330-390 | 1.9 | 0.1 | 0.2 | 0 | 0 | 0.3 | 0 | 0.1 | 0.3 | 0 | 0.3 | 0.8 |
| Cataract, 411-413 | 21.3 | 0.2 | 0.1 | 0 | 0.7 | 8.0 | 0 | 0.0 | 2.3 | 0 | 0 | 9.8 |
| Uveitis, 510, 520, 570 | 3.9 | 0.4 | 0.2 | 0 | 0 | 0 | 0 | 0.2 | 0.4 | 0 | 0.0 | 2.8 |
| Retrolental fibroplasia, | | | | | | | | | | | | |
| 630 | 0.9 | 0 | 0.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Retinal degeneration, | | | | | | | | | | | | |
| 650, 660, 670 | 17.2 | 0.0 | 0.0 | 0 | 0.0 | 7.6 | 0.2 | 0 | 3.8 | 0 | 0.7 | 4.8 |
| Other retinal affections | | | | | | | | | | | | |
| 610, 615, 640, 690 | 13.9 | 0.0 | 0.1 | 0.3 | 9.6 | 0.1 | 1.5 | 0.1 | 0.4 | 0 | 0.1 | 1.5 |
| Optic nerve atrophy, | | | | | | | | | | | | |
| 710, 720 | 5.8 | 0.4 | 0.4 | 0.6 | 0.0 | 0 | 0.3 | 0.5 | 0.7 | 0 | 0.0 | 2.8 |
| Multiple affections, | | | | | | | | | | | | |
| 951-979 | 6.9 | 0.0 | 0 | 0 | 0.3 | 0.4 | 0.0 | 0.0 | 0 | 4.9 | 0.0 | 1.2 |
| Unknown, 990 | 3.5 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.2 | 0 | 0 | 3.0 |
| Residual, All other | | | | | | | | | | | | |
| codes | 9.9 | 0.2 | 1.0 | 0.4 | 0.1 | 0.2 | 0.6 | 0.4 | 5.6 | 0 | 0.4 | 1.1 |

¹ Standard Classification of Causes of Severe Vision Impairment and Blindness, 1965 Revision.

These data relate only to those first additions examined by ophthalmologists or EENT specialists. The three most frequent diagnoses were glaucoma, other than congenital which was arbitrarily coded to an etiology "unknown to science"; cataract with etiology not reported or determined;

and other retinal affections due to diabetes. The percents for cataract due to senile degeneration and retinal degeneration due to senile degeneration were 8.0 and 7.6 respectively or 15.6 percent of the total MRA.

TABLE 20.—First additions to register by selected multiple affection groups, race and sex: MRA total, 1965 (number and percent)

| Total | All races | | 1 | | | | | | | | |
|-------|--|--|-------|-------|--|--|--|---------------|--|---|--|
| Total | | • | | White | | | Nonwhit | е | | Unknow | n |
| 10001 | Male | Female | Total | Male | Female | Total | Male | Female | Total | Male | Female |
| | | | | | Num | nber | | | | | |
| 355 | 143 | 212 | 254 | 102 | 152 | 59 | 28 | 31 | 42 | 13 | 29 |
| 155 | 63 | 92 | 114 | 44 | 70 | 29 47 | 13 | 16 | 12 | 6 | 18 |
| 14 | 5 | 9 | 8 | 2 | 6 | 2 | 1 | 1 | 4 | 2 | 2 |
| 199 | 76 | 123 | 140 | 52 | 88 | 34 | 18 | 16 | 25 | 6 | 19 |
| 11 | 4 | 7 | 8 | 3 | 5 | _ | | | 3 | 1 | 2 |
| | | | | | Perce | ent ³ | | 1 | | | |
| 6.9 | 2.8 | 4.1 | 5.0 | 2.0 | 3.0 | 1.2 | 0.5 | 0.6 | | | |
| 3.0 | 1.2 | 1.8 | 2.2 | 0.9 | 1.4 | 0.6 | 0.3 | 0.3 | | | |
| 4.9 | 1.9 | 2.9 | 3.5 | 1.4 | 2.1 | 0.9 | 0.4 | 0.5 | | | |
| 0.3 | 0.1 | 0.2 | 0.2 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | | | |
| 3.9 | 1.5 | 2.4 | 2.7 | 1.0 | 1.7 | 0.7 | 0.4 | 0.3 | | | |
| 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0 | . 0 | 0 | | | |
| | 355 249 14 199 11 6.9 3.0 4.9 0.3 3.9 | 355 143 155 63 249 99 14 5 199 76 11 4 6.9 2.8 3.0 1.2 4.9 1.9 0.3 0.1 3.9 1.5 | 355 | 355 | 355 143 212 254 102 155 63 92 114 44 249 99 150 181 72 14 5 9 8 2 199 76 123 140 52 11 4 7 8 3 6.9 2.8 4.1 5.0 2.0 3.0 1.2 1.8 2.2 0.9 4.9 1.9 2.9 3.5 1.4 0.3 0.1 0.2 0.2 0.0 3.9 1.5 2.4 2.7 1.0 | Nun 355 143 212 254 102 152 | Number 355 143 212 254 102 152 59 155 63 92 114 44 70 29 249 99 150 181 72 109 47 14 5 9 8 2 6 2 199 76 123 140 52 88 34 11 4 7 8 3 5 — Percent ³ 6.9 2.8 4.1 5.0 2.0 3.0 1.2 3.0 1.2 1.8 2.2 0.9 1.4 0.6 4.9 1.9 2.9 3.5 1.4 2.1 0.9 0.3 0.1 0.2 0.2 0.0 0.1 0.0 3.9 1.5 2.4 2.7 1.0 1.7 0.7 | Number 355 | Number 355 143 212 254 102 152 59 28 31 155 63 92 114 44 70 29 13 16 249 99 150 181 72 109 47 21 26 14 5 9 8 2 6 2 1 1 199 76 123 140 52 88 34 18 16 11 4 7 8 3 5 Percent 3 6.9 2.8 4.1 5.0 2.0 3.0 1.2 0.5 0.6 3.0 1.2 1.8 2.2 0.9 1.4 0.6 0.3 0.3 4.9 1.9 2.9 3.5 1.4 2.1 0.9 0.4 0.5 0.3 0.1 0.2 0.2 0.0 0.1 0.0 0.0 0.0 3.9 1.5 2.4 2.7 1.0 1.7 0.7 0.4 0.3 | Number 355 143 212 254 102 152 59 28 31 42 | Number 355 143 212 254 102 152 59 28 31 42 13 155 63 92 114 44 70 29 13 16 12 6 249 99 150 181 72 109 47 21 26 21 6 14 5 9 8 2 6 2 1 1 4 2 199 76 123 140 52 88 34 18 16 25 6 11 4 7 8 3 5 3 1 Percent 3 6.9 2.8 4.1 5.0 2.0 3.0 1.2 0.5 0.6 3.0 1.2 1.8 2.2 0.9 1.4 0.6 0.3 0.3 4.9 1.9 2.9 3.5 1.4 2.1 0.9 0.4 0.5 0.3 0.1 0.2 0.2 0.0 0.1 0.0 0.0 0.0 3.9 1.5 2.4 2.7 1.0 1.7 0.7 0.4 0.3 |

¹ Standard Classification of Causes of Severe Vision Impairment and Blindness, 1965 Revision.

These data relate only to those first additions with multiple affections examined by ophthalmologists or EENT specialists. Many cases of blindness result from a combination of two or more affections. This table attempts to present the more commonly occurring affections regardless of the concurrent affection. Thus, any case of glaucoma and cataract, or glaucoma and macular disease, or glaucoma occurring with any other primary affection is listed after "Glaucoma and other." A case of glaucoma and cataract would

be listed again under "Cataract and other." Both the frequency and percent tables can be added to the comparable tables of solitary affections. Thus, cases of "Glaucoma and other" can be added to cases of "Glaucoma" to show that glaucoma contributed to 720 cases (14.0 percent) of reported cases of blindness. Since the common affections frequently occur in combination together (i.e., glaucoma and cataract) the categories in the table are not mutually exclusive or additive.

² Columns are nonadditive because the selected multiple affection groups are not mutually exclusive.

s Percents are based upon the total number of first additions examined by ophthalmologists or eye-ear-nose-throat specialists.

TABLE 21.—First additions to register by selected multiple affection groups and age: MRA total, 1965 (number and percent)

| | | | | | Age | | | | |
|--|------------|---------|------|-------|-----------|----------|------------|----------------|--------------|
| Selected multiple affection groups (and rubrics) ¹ | Total | Under 5 | 5-19 | 20-44 | 45-64 | 65-74 | 75-84 | 85 and over | Un- known |
| | | | | | Number | | | | |
| Total, all multiple affections 2 | 355 | 1 | 1 | 12 | 67 | 66 | 122 | 54 | 32 |
| Glaucoma and other, 951, 952, 954, 955 Cataract and other, 951, 953, 954, 956 | 155 249 | | 1 | 4 9 | 33 42 | 29 52 | 53 86 | 22 40 | 14 19 |
| Retinal affection and other with diabetic etiology, 952, 953, 954, 957 | 14 | _ | | 2 | 5 | 4 | . 2 | | . 1 |
| ogy, 952, 953, 954, 957 | 199 | 1 | ` | 5 | 31 | 34 | 71 | 38 | 19 |
| Other (except any combination of glaucoma, cataract, and retinal affection), 979 | 11 | _ | _ | _ | 3 | 3 | 4 | 1 | |
| | | , | | | Percent 8 | } | | | |
| Total, all multiple affections 2 | 6.9 | 0.0 | 0.0 | 0.2 | 1.3 | 1.3 | 2.4 | 1.1 | |
| Glaucoma and other, 951, 952, 954, 955 | 3.0 4.9 | 0 | 0.0 | 0.1 | 0.6 | 0.6 | 1.0 1.7 | 0.4 | |
| 952, 953, 954, 957 | 0.3 | 0 | 0 | 0.0 | 0.1 | 0.1 | 0.0 | 0 | |
| etiology, 952, 953, 954, 957 | 3.9 | 0.0 | 0 | 0.1 | 0.6 | 0.7 | 1.4 | 0.7 | |
| Other (except any combination of glaucoma, cataract, and retinal affection), 979 | 0.2 | 0 | 0 | 0 | 0.1 | 0.1 | 0.1 | 0.0 | |

¹ Standard Classification of Causes of Severe Vision Impairment and Blindness, 1965 Revision.

These data relate only to those first additions with multiple affections examined by opthalmologists or EENT specialists. (See comments for Table 20.) Cataract occurring in any com-

bination accounted for the highest proportion that occurred in each age group with the exception of the "under 5" age group.

² Columns are nonadditive because the selected multiple affection groups are not mutually exclusive.

⁵ Percents are based upon the total number of first additions examined by ophthalmologists or eye-ear-nose-throat specialists.

TABLE 22.—First additions to register by selected multiple affection groups and degree of vision: MRA total, 1965 (number and percent)

| | | | | | Degree | of vision | | | | |
|---|------------|----------------------------|--------------------------|--------------------------|-----------------------|---|--------------------------------------|----------|---------------------------|--------------|
| Selected multiple affection groups (and rubrics) ¹ | Total | Absolute blind- ness | Light per- ception | Light pro- jection | Less than 5/200 | than but less than 10/200 20/20 Number | 10/200 but less than 20/200 | 20/200 | Field restric- tion | Un- known |
| | | | | | Nur | nber | | | | <u>'</u> |
| Total, all multiple affections 2 | 355 | 7 | 30 | 6 | 66 | 48 | 68 | 103 | 17 | 10 |
| Glaucoma and other, 951, 952, 954, 955 Cataract and other, 951, 953, 954, 956 Retinal affection and other with diabetic | 155 249 | 4 | 14 23 | 3 4 | | | 29 48 | 44 80 | 13 6 | 3 8 |
| etiology, 952, 953, 954, 957 | 14 | | 1 | | 3 | - | 4 | 6 | | |
| betic etiology, 952, 953, 954, 957 Other (except any combination of glaucoma, cataract, and retinal affection), | 199 | 5 | 11 | 3 | 33 | 37 | 39 | 57 | 9 | 5 |
| 979 | 11 | 1 | 2 | | ******* | 1 | 2 | 3 | 1 | 1 |
| | | | | | Perc | ent ³ | | | | |
| Total, all multiple affections | 6.9 | 0.1 | 0.6 | 0.1 | 1.3 | 0.9 | 1.3 | 2.0 | 0.3 | |
| Glaucoma and other, 951, 952, 954, 955 Cataract and other, 951, 953, 954, 956 Retinal affection and other with diabetic | 3.0 4.9 | 0.1 | 0.3 | 0.1 | | | 0.6 | 0.9 | 0.3 | |
| etiology, 952, 953, 954, 957 | 0.3 | 0 | 0.0 | 0 | 0.1 | 0 | 0.1 | 0.1 | 0 | |
| betic etiology, 952, 953, 954, 957Other (except any combination of glau- | 3.9 | 0.1 | 0.2 | 0.1 | 0.6 | 0.7 | 0.8 | 1.1 | 0.2 | |
| coma, cataract, and retinal affection), 979 | 0.2 | 0.0 | 0.0 | 0 | 0 | 0.0 | 0.0 | 0.1 | 0.0 | |

¹ Standard Classification of Causes of Severe Vision Impairment and Blindness, 1965 Revision.

These data relate only to those first additions with multiple affections examined by ophthal-mologists or EENT specialists. (See comments for Table 20.) The percent of additions with glaucoma in combination with other conditions

who were reported blind because of field restriction was 8.4. The percent of additions with glaucoma alone who were reported blind because of field restriction was 24.2 (See Table 14).

² Columns are nonadditive because the selected multiple affection groups are not mutually exclusive.

⁵ Percents are based upon the total number of first additions examined by ophthalmologists or eye-ear-nose-throat specialists.

TABLE 23.—First additions to register by major multiple affection groups and major etiology groups: MRA total, 1965 (number and percent)

| | | | | Ma | ajor etiolog | gy groups | and rubric | 08)1 | | | | |
|--|-------|----------------------------------|----------------|--------------------------------------|--------------------------------------|-----------------------------------|--|---|---|--|---|--|
| Major multiple affection groups (and rubrics) 1 | Total | Infectious diseases 20.20, 29.20 | Diabetes 62.10 | Senile degen- eration 62.20 | Other diseases 62.90, 64.90 | Unknown to Science 91.00 | Senile degen- eration and diabetes mellitus. with or without others 95.01 | Senile degen- eration and others, without diabetes mellitus 95.02 | Diabetes mellitus and others, without senile degen- eration 95.03 | All other multiple etiol- ogies 95.99 | Not reported or deter- mined 99.00 | |
| | | Number | | | | | | | | | | |
| Total, all multiple affections | 355 | 2 | 15 | 23 | 2 | 2 | 9 | 85 | 25 | 133 | 59 | |
| Glaucoma and cataract without retinal affection, with or with- out others, 951 | 85 | | _ | _ | | | 1 | 37 | | 47 | | |
| without cataract, with or without others, 952 Cataract and retinal affection | 38 | | 1 | | | 1 | 1 | 11 | 7 | 17 | _ | |
| without glaucoma, with or without others, 953 Glaucoma, cataract, and retinal | 108 | | 11 | 17 | | _ | 4 | 17 | 11 | 19 | 29 | |
| affection, with or without others, 954 | 21 | | _ | | _ | _ | 2 | 6 | 3 | 10 | _ | |
| cataract and/or retinal affection), 955Cataract and other (except glau- | 11 | | | | _ | 1 | _ | 1 | | 9 | _ | |
| coma and/or retinal affection), 956 Retinal affection and other (ex- | 35 | 1 | 1 | 3 | 1 | _ | _ | 5 | _ | 12 | 12 | |
| cept glaucoma and/or cataract), 957Other (except any combination | 46 | 1 | 2 | 3 | 1 | | 1 | 7 | 4 | 15 | 12 | |
| of glaucoma, cataract, and retinal affection), 979 | 11 | _ | | | - | _ | _ | 1 | | 4 | 6 | |

See footnote at end of table.

TABLE 23. Cont.—First additions to register by major multiple affection groups and major etiology groups: MRA total, 1965 (number and percent)

| | | | | M | ajor etiolo | gy groups | (and rubric | cs)1 | | | |
|--|-------|---|-------------------|--------------------------------------|-----------------------------|-----------------------------------|--|---|---|--|---|
| Major multiple affection groups (and rubrics) ¹ | Total | Infectious diseases 20.20, 29.20 | Diabetes 62,10 | Senile degen- eration 62.20 | Other diseases 62.90, 64.90 | Unknown to Science 91.00 | Senile degen- eration and diabetes mellitus, with or without others 95.01 | Senile degeneration and others, without diabetes mellitus 95.02 | Diabetes mellitus and others, without senile degen- eration 95.03 | All other multiple etiol- ogies 95,99 | Not reported or deter- mined 99.00 |
| | | | | | | Percent | 2 | | | | |
| Total, all multiple affections | 6.9 | 0.0 | 0.3 | 0.4 | 0.0 | 0.0 | 0.2 | 1.7 | 0.5 | 2.6 | 1.2 |
| Glaucoma and cataract without retinal affection, with or without others, 951Glaucoma and retinal affection | 1.7 | 0 | 0 | 0 | 0 | 0 | 0.0 | .0.7 | 0 | 0.9 | 0 |
| without cataract, with or without others, 952Cataract and retinal affection | 0.7 | 0 | 0.0 | 0 | :0 | 0.0 | - 0.0 | 0.2 | 0.1 | 0.3 | 0 |
| without glaucoma, with or without others, 953 Glaucoma, cataract, and retinal | 2.1 | 0 | 0.2 | 0.3 | :0 | .0 | 0.1 | 0.3 | 0.2 | 0.4 | 0.6 |
| affection, with or without others, 954 | 0.4 | :0 | 0 / | 0 | 0 | (O | 0.0 | 0.1 | 0.1 | 0.2 | 0 |
| tion), 955Cataract and other (except glau- | 0.2 | 0 | 0 | 0 | 0 | 0.0 | :0 | 0.0 | 0 | 0.2 | 0 |
| coma and/or retinal affection), 956 Retinal affection and other (ex- | 0.7 | 0.0 | 0.0 | 0.1 | 00 | 0 | 0 | 0.1 | 0 | 0.2 | 0.2 |
| cept glaucoma and/or cataract), 957 | 0.9 | 0.0 | 0.0 | 0.1 | 0.0 | 0 | (00) | 0.1 | 01 | 0.3 | 0.2 |
| of glaucoma, cataract, and retinal affection), 979 | .0.2 | 0 | 10 | 0 | :0 | 0 | 0 | 0.0 | 0 | 0.1 | 0.1 |

¹ Standard Classification of Causes of Severe Vision Impairment and Blindness, 1965 Revision.

These data relate only to those first additions with multiple affections examined by ophthal-mologists or EENT specialists. The three most frequently reported diagnoses were glaucoma and cataract without retinal affection with or without others with an etiology of "all other multiple

etiologies"; glaucoma and cataract without retinal affection with or without others with an etiology of senile degeneration and others, without diabetes mellitus; and cataract and retinal affection without glaucoma, with or without others with an etiology of "not reported or determined."

² Percents are based upon the total number of first additions examined by ophthalmologists or eye-ear-nose-throat specialists.

| Race and sex | | | | | Age | | | | |
|------------------|---------------------|------------|----------------|----------------|----------------|--------------------|--------------------|--------------------|------------------|
| | Total | Under 5 | 5-19 | 20-44 | 45-64 | 65-74 | 75-84 | 85 and over | Unknown |
| | | | | | Number | | | | |
| Total, all races | 1 54,892 | 333 | 5,738 | 8,663 | 14,179 | 5 9,082 | 5 9,047 | 5,921 | 6 1,929 |
| Male Female | 27,155 27,727 | 178 155 | 3,230 2,508 | 5,073 3,590 | 7,867 6,312 | 4,297 4,782 | 3,594 5,450 | 2,058 3,863 | 858 1,067 |
| White | ² 42,030 | 213 | 4,446 | 6,753 | 10,084 | 4 6,740 | 4 7,471 | 5,118 | 1,205 |
| Male Female | 20,661 21,367 | 116 97 | 2,487 1,959 | 4,006 2,747 | 5,695 4,389 | 3,134 3,605 | 2,943 4,527 | 1,748 3,370 | 532 673 |
| Nonwhite | ³ 11,052 | 84 | 918 | 1,806 | 3,859 | ² 2,188 | 2 1,401 | 673 | ⁵ 123 |
| Male Female | 5,617 5,428 | 44 40 | 530 388 | 1,006 | 2,044 1,815 | 1,076 1,110 | 583 816 | 265 408 | 69 51 |
| Unknown | 4 1,810 | 36 | 374 | 104 | 236 | 154 | 175 | 130 | 4 601 |
| Male Female | 877 932 | 18 | 213 161 | 61 43 | 128 108 | 87 67 | 68 107 | 45 85 | 257 343 |
| | | | <u> </u> | Rate per | r 100,000 po | pulation | \$ | | |
| Total, all races | 149.4 | 8.0 | 56.8 | 72.7 | 195.2 | 417.4 | 986.6 | 3,132.8 | |
| Male Female | 150.2 148.6 | 8.4 7.5 | 63.0 50.4 | 86.7 59.2 | 222.9 169.0 | 432.7 404.2 | 923.9 1,032.2 | 2,898.6 3,273.7 | |
| White | 130.1 | | 51.4 | 64.0 | 153.5 | 338.9 | 882.1 | 2,958.4 | |
| MaleFemale | 129.7 130.4 | | 56.5 46.1 | 77.0 51.3 | 178.3 130.0 | 346.3 332.6 | 826.7 923.9 | 2,731.3 3,091.7 | |
| Nonwhite | 250.2 | | 63.2 | 133.1 | 556.1 | 1,170.1 | 2,001.4 | | |
| Male Female | 260.8 239.8 | | 73.1 53.4 | 156.0 112.4 | 610.1 505.6 | 1,222.7 1,121.2 | 1,766.7 2,205.4 | | |

¹ Includes 10 persons with sex not stated.

Reliable estimates of the population of each MRA State for race, by age and sex for a noncensus year are not available. As a result, the age-specific rates in the race portion of the table should be regarded as a crude representation and not necessarily as a reflection of the true reported prevalence rates in that particular portion of the population. For all ages combined, the rates for end-of-year register totals for males and females

were similar. For both sexes the lowest rates were for the under 5-year age group, increasing rather sharply thereafter with age. The age-specific rates for males were somewhat higher than for females up through age 74, after which the rates for females were higher. In the 14 MRA States as a whole, about 3 percent of the total population aged 85 years and over were blind.

² Includes 2 persons with sex not stated.

³ Includes 7 persons with sex not stated.

⁴ Includes 1 person with sex not stated. ⁵ Includes 3 persons with sex not stated.

⁶ Includes 4 persons with sex not stated.

TABLE 25.—Total on register by race and sex: each MRA State and MRA total, as of December 31, 1965 (number and rate)

| State | | All races | | | White | | | Nonwhite | | | Unknown | , |
|--------------------|---------|-----------------------------|--------------|--|--|----------------|---------------------|-------------|------------|-----------|---------|---------------|
| | Total | Male | Female | Total | Male | Female | Total | Male | Female | Total | Male | Female |
| | | | | | | Num | nber | | | | | |
| MRA total | 154,892 | 27,155 | 27,727 | ² 42,030 | 20,661 | 21,367 | ³ 11,052 | 5,617 | 5,428 | 4 1,810 | 877 | 932 |
| Connecticut | | 1,555 | 1,701 | 3,034 | 1,452 | 1,582 | | 101 | 111 | 10 | 2 | 8 |
| Kansas | | 1,530 | 1,733 | | 1,265 | | | 158 | 143 | 209 | 107 | 102 |
| Louisiana | 6,027 | 3,287 | 2,740 | | 1,751 | 1,409 | · / | 1,529 | | 7 | 7 | |
| Massachusetts | 9,713 | 4,450 | 5,263 | 9,161 | 4,207 | 4,954 | | 141 | 143 | 268 | 102 | 166 |
| New Hampshire | 1 / | 511 | 528 | 1 / 1 | 507 | 525 | | 3 | 2 | 2 | 1 | 1 |
| New Jersey | 7,408 | 3,651 | 3,757 | 5,634 | 2,748 | | | 583 | 605 | 1 | 320 | 266 |
| New Mexico | 1 2,606 | 1,418 | 1,178 | | 1,320 | | 1 | 97 | 66 | | 1 | $\frac{2}{2}$ |
| | , , | 4,824 | 5,290 | 1 1 | 2,941 | 3,125 1,100 | | 1,882 41 | 2,163 15 | | 60 | 42 |
| OregonRhode Island | 1 / 1 | 1,174 | 1,157 570 | $\begin{bmatrix} 2,173 \\ 1.015 \end{bmatrix}$ | 1,073 493 | í ' ! | 1 | 16 | 26 | | 18 | 22 |
| South Dakota | 859 | 464 | 395 | 1 / 1 | 351 | | f 1 | 107 | 71 | 8 | 6 | 2 |
| Utah | 1,200 | 564 | 636 | | 550 | - | | 14 | 5 | | | |
| Vermont. | 676 | 293 | 383 | 1 1 | 293 | | | 17 | | Languisea | - | |
| Virginia | 5,303 | 2,907 | 2,396 | | 1,710 | | | 945 | 747 | 571 | 252 | 319 |
| | 0,000 | 2,000 | 2,000 | 3,020 | .,,,, | 2,000 | 1,002 | 0 20 | | | | |
| | | | | | Rate | per 100,0 |)00 popu | lation | | | | |
| | | many many and and a America | | | and any official to be a second associate, the | | | | | | | |
| MRA total | 149.4 | 150.2 | 148.6 | 130.1 | 129.7 | 130.4 | 250.2 | 260.8 | 239.8 | | | |
| Connecticut | 115.1 | 112.0 | 118.0 | 112.1 | 109.3 | 114.8 | 171.0 | 165.6 | 176.2 | | | |
| Kansas | 145.2 | 137.1 | 153.1 | 128.3 | 118.9 | 137.7 | - 292.2 | 303.8 | 275.0 | | | |
| Louisiana | 169.3 | 188.9 | 150.5 | 130.7 | 146.9 | 114.9 | 250.2 | 278.5 | 224.1 | | | |
| Massachusetts | 181.2 | 171.9 | 189.9 | 175.2 | 166.7 | 183.1 | 216.8 | 216.9 | 216.7 | | | |
| New Hampshire | 154.4 | 154.4 | 154.4 | 154.0 | 154.1 | 154.0 | | | | | | |
| New Jersey | | | | | 90.5 | 91.5 | | 205.3 | | | | |
| New Mexico | 257.0 | | 234.7 | | 279.7 | 240.3 | | 242.5 | | | | |
| North Carolina | 1 | 198.2 | 211.5 | | 161.2 | | | 309.0 | 335.9 | | | |
| Oregon | 1 | 121.8 | | | 113.8 | | | | | | | |
| Rhode Island | | 120.6 | | | | | | | | | | |
| South Dakota | | 133.7 | 116.5 | | 105.4 | | 635.7 | | | | | |
| Utah | 120.7 | 113.5 | | | 112.9 | | | | | | | |
| Vermont | 167.3 | 1 | | | 148.0 | 186.8 | 0 | 0 | 0 | | | |
| Virginia | 120.0 | 131.8 | 108.2 | | | | | | | | | |

¹ Includes 10 persons with sex not stated.

For the MRA as a whole the rate for nonwhites was approximately twice the rate for whites. In eight of the nine States which had sufficiently large nonwhite populations to permit meaningful rates for end-of-year register totals to be computed, the rates for nonwhites were appreciably higher than those for whites, and this race differ-

ential was consistent for either sex. New Mexico was the only State to show a higher rate for whites than for nonwhites. South Dakota had the highest rate for nonwhites with 635.7 per 100,000 nonwhite population. Of the 178 nonwhites reported blind in South Dakota, 170 were known to be Indians.

² Includes 2 persons with sex not stated.

³ Includes 7 persons with sex not stated.

⁴ Includes 1 person with sex not stated.

TABLE 26.—Total on register by age: each MRA State and MRA total, as of December 31, 1965 (number and rate)

| State | | | | | Age | | | | |
|----------------|--------|---------|-------|----------|--------------|----------|---------|-------------|---------|
| | Total | Under 5 | 5-19 | 20-44 | 45-64 | 65-74 | 75–84 | 85 and over | Unknown |
| | | | | | Number | | | | |
| MRA total_ | 54,892 | 333 | 5,738 | 8,663 | 14,179 | 9,082 | 9,047 | 5,921 | 1,929 |
| Connecticut | 3,256 | 22 | 503 | 517 | 778 | 560 | 499 | 343 | 34 |
| Kansas | 3,263 | 8 | 279 | 417 | 704 | 471 | 761 | 622 | 1 |
| Louisiana | 6,027 | 34 | 534 | 1,138 | 2,222 | 1,154 | 602 | 266 | 77 |
| Massachusetts | 9,713 | 66 | 919 | 1,386 | 2,179 | 1,730 | 1,788 | 1,220 | 425 |
| New Hampshire | 1,039 | 8 | 132 | 131 | 222 | 172 | 200 | 162 | 12 |
| New Jersey | 7,408 | 62 | 1,032 | 1,073 | 1,927 | 1,230 | 1,082 | 758 | 244 |
| New Mexico | 2,606 | 8 | 132 | 291 | 385 | 359 | 528 | 371 | 532 |
| North Carolina | 10,114 | 75 | 912 | 1,710 | 2,771 | 1,722 | 1,844 | 1,078 | 2 |
| Oregon | 2,331 | 13 | 285 | 359 | 545 | 329 | 462 | 316 | 22 |
| Rhode Island | 1,097 | 6 | 141 | 198 | 292 | 205 | 143 | 104 | 8 |
| South Dakota | 859 | 9 | 87 | 132 | 189 | 158 | 170 | 95 | 19 |
| Utah | 1,200 | 1 | 123 | 187 | 205 | 173 | 294 | 216 | 1 |
| Vermont | 676 | 7 | 50 | 114 | 177 | 100 | 130 | 95 | 3 |
| Virginia | 5,303 | 14 | 609 | 1,010 | 1,583 | 719 | 544 | 275 | 549 |
| | | | | Rate per | r 100,000 po | pulation | | | |
| MRA total | 149.4 | 8.0 | 56.8 | 72.7 | 195.2 | 417.4 | 986.6 | 3,132.8 | |
| Connecticut | 115.1 | 7.1 | 70.4 | 55.1 | 130.3 | 307.7 | 683.6 | | |
| Kansas | 145.2 | 3.1 | 46.3 | 59.7 | 158.2 | 305.8 | 1,001.3 | | |
| Louisiana | 169.3 | 7.4 | 49.5 | 102.7 | 343.4 | 655.7 | 824.7 | | |
| Massachusetts | 181.2 | 11.6 | 68.2 | 82.0 | 188.5 | 444.7 | 1,051.8 | 3,297.3 | |
| New Hampshire | 154.4 | 11.0 | 74.2 | 63.6 | 157.4 | 358.3 | | | |
| New Jersey | 109.2 | 8.6 | 61.4 | 47.1 | 130.2 | 285.4 | 659.8 | 2,445.2 | |
| New Mexico | 257.0 | | | | | | | | |
| North Carolina | 204.9 | 13.2 | 60.0 | 104.6 | 317.8 | 755.3 | 2,004.3 | | |
| Oregon | 120.3 | 6.4 | 53.1 | 61.2 | 132.9 | 249.2 | 796.6 | | |
| Rhode Island | 123.1 | 6.5 | 62.7 | 68.5 | 152.9 | 330.6 | 550.0 | | |
| South Dakota | 125.2 | 10.7 | 43.7 | 66.3 | 143.2 | 336.2 | | | |
| Utah | 120.7 | 0.7 | 38.8 | 60.3 | 128.9 | 393.2 | | | |
| Vermont | 167.3 | 15.6 | 43.9 | 97.4 | 218.5 | 357.1 | | | |
| Virginia | 120.0 | | | | | | | | |
| | 120.0 | | | | | | | | |

For each MRA State the rate for end-of-year register totals generally increased with increasing age.

TABLE 27.—Total on register by degree of vision: each MRA State and MRA total, as of December 31, 1965 (number and percent)

| | | | | | Degree | of vision | | | | | | | |
|----------------|--------|-----------------------|--------------------------|---------------------------------------|-----------------------|----------------------------------|-----------------------------------|--------|-------------------|---------|--|--|--|
| State | Total | Absolute blindness | Light percep- tion | Light projection | Less than 5/200 | 5/200 but less than 10/200 | 10/200 but less than 20/200 | 20/200 | Field restriction | Unknown | | | |
| | | | | · · · · · · · · · · · · · · · · · · · | Nu | mber | | | | | | | |
| MRA total | 54,892 | 6,390 | 6,402 | 518 | 8,474 | 5,250 | 7,936 | 11,236 | 2,986 | 5,70 | | | |
| Connecticut | 3,256 | 382 | 309 | 72 | 486 | 278 | 296 | 630 | 158 | 64 | | | |
| Kansas | | 470 | 386 | 43 | 455 | 398 | 581 | 763 | 118 | 4 | | | |
| Louisiana | 6,027 | 863 | 758 | 69 | 1,207 | 413 | 845 | 1.077 | 623 | 17 | | | |
| Massachusetts | 9,713 | 841 | 820 | 62 | 1,509 | 1,113 | 1,938 | 2,218 | 582 | 63 | | | |
| New Hampshire | | 117 | 116 | 5 | 185 | 94 | 176 | 234 | 53 | 5 | | | |
| New Jersey | 7,408 | 958 | 1,090 | 91 | 940 | 991 | 999 | 1,432 | 418 | 48 | | | |
| New Mexico | | 223 | 368 | 8 | 316 | 185 | 193 | 536 | 21 | 75 | | | |
| North Carolina | 10,114 | 1,098 | 1,234 | 98 | 1,739 | 814 | 1,464 | 2,259 | 447 | 96 | | | |
| Oregon | | 322 | 285 | 7 | 385 | 224 | 441 | 505 | 160 | | | | |
| Rhode Island | 1,097 | 131 | 135 | 8 | 169 | 108 | 122 | 199 | 71 | 15 | | | |
| South Dakota | 859 | 121 | 113 | 11 | 71 | 67 | 102 | 116 | 35 | 22 | | | |
| Utah | 1,200 | 69 | 78 | 7 | 154 | 99 | 210 | 214 | 21 | 34 | | | |
| Vermont | 676 | 77 | 94 | 8 | 104 | 57 | 95 | 133 | 64 | 4 | | | |
| Virginia | 5,303 | 718 | 616 | 29 | 754 | 409 | 474 | 920 | 215 | 1,16 | | | |
| | | Percent | | | | | | | | | | | |
| MRA total | 100.0 | 11.6 | 11.7 | 0.9 | 15.4 | 9.6 | 14.5 | 20.5 | 5.4 | 10. | | | |
| Connecticut | 100.0 | 11.7 | 9.5 | 2.2 | 14.9 | 8.5 | 9.1 | 19.3 | 4.9 | 19. | | | |
| Kansas | 100.0 | 14.4 | 11.8 | 1.3 | 13.9 | 12.2 | 17.8 | 23.4 | 3.6 | 1. | | | |
| Louisiana | | 14.3 | 12.6 | 1.1 | 20.0 | 6.9 | 14.0 | 17.9 | 10.3 | 2. | | | |
| Massachusetts | | 8.7 | 8.4 | 0.6 | 15.5 | 11.5 | 20.0 | -22.8 | 6.0 | 6. | | | |
| New Hampshire | | 11.3 | 11.2 | 0.5 | 17.8 | 9.0 | 16.9 | 22.5 | 5.1 | 5. | | | |
| New Jersey | 1 | 12.9 | 14.7 | 1.2 | 12.7 | 13.4 | 13.5 | 19.3 | 5.6 | 6. | | | |
| New Mexico | 100.0 | 8.6 | 14.1 | 0.3 | 12.1 | 7.1 | 7.4 | 20.6 | 0.8 | 29. | | | |
| North Carolina | | 10.9 | 12.2 | 1.0 | 17.2 | 8.0 | 14.5 | 22.3 | 4.4 | 9. | | | |
| Oregon | 1 | 13.8 | 12.2 | 0.3 | 16.5 | 9.6 | 18.9 | 21.7 | 6.9 | 0. | | | |
| Rhode Island | | 11.9 | 12.3 | 0.7 | 15.4 | 9.8 | 11.1 | 18.1 | 6.5 | 14. | | | |
| South Dakota | | 14.1 | 13.2 | 1.3 | 8.3 | 7.8 | 11.9 | 13.5 | 4.1 | 26. | | | |
| Utah | | 5.8 | 6.5 | 0.6 | 12.8 | 8.3 | 17.5 | 17.8 | 1.8 | 29. | | | |
| Vermont | 100.0 | 11.4 | 13.9 | 1.2 | 15.4 | 8.4 | 14.1 | 19.7 | 9.5 | 6 | | | |
| Virginia | 100.0 | 13.5 | 11.6 | 0.5 | 14.2 | 7.7 | 8.9 | 17.3 | 4.1 | 22. | | | |

Degree of vision for persons on the register at the end of the year is based on the results of the latest recorded examination for each registrant.

With few exceptions the 20/200 category was the largest for each State. (See comments for Table 5 regarding 20/200 acuity.) About 12 percent of all registrants were totally blind and an additional 13 percent had only light perception or projection. (A number of persons in the "light perception" category may belong in the "light projection" category because the distinction between the two categories was not emphasized prior to 1962.) More than 5 percent of those on

the register had better than 20/200 visual acuity but with visual field restricted to 20 degrees or less.

Persons presumed blind but who could not be examined adequately or for whom there was no report of actual visual acuity (i.e., "unknown"), accounted for about 10 percent of the MRA total registrants at the end of 1965. By State, the percents in this category ranged from 0.1 percent in Oregon to a high of 29.0 percent in New Mexico and Utah. It is not known to what extent this may account for some of the interstate variation by degree of vision.

TABLE 28.—Total on register by race, sex and degree of vision: MRA total, as of December 31, 1965 (number and percent)

| | | | | | Degree | of vision | | | | |
|------------------|-----------------------|-----------------------|--------------------------|------------------|-----------------------|----------------------------------|-----------------------------------|----------------|----------------------|--------------------|
| Race and sex | Total | Absolute blindness | Light percep- tion | Light projection | Less than 5/200 | 5/200 but less than 10/200 | 10/200 but less than 20/200 | 20/200 | Field restriction | Unknown |
| | | | | | Nu | mber | | | | |
| Total, all races | ¹ 54 , 892 | 6,390 | 6,402 | 518 | 4 8,474 | 5,250 | 7,936 | 4 11,236 | 2,986 | ⁵ 5,700 |
| MaleFemale | 27,155 27,727 | 3,325 3,065 | 3,096 3,306 | | 4,123 4,350 | | | 5,509 5,726 | | |
| White | 242,030 | 4,539 | 4,632 | 392 | 46,245 | 4,173 | 6,436 | 9,050 | 2,130 | 4 4,433 |
| MaleFemale | 20,661 21,367 | 2,386 2,153 | 2,261 2,371 | | 2,987 3,257 | , | , | | | |
| Nonwhite | ³ 11,052 | 1,700 | 1,636 | 116 | 2,042 | 936 | 1,231 | 1,819 | 795 | 3 777 |
| MaleFemale | 5,617 5,428 | | 765 871 | 56 60 | 1,057 985 | | | 920 899 | 1 | 419 351 |
| Unknown | 4 1,810 | 151 | 134 | 10 | 187 | 141 | 269 | 4 367 | 61 | 490 |
| MaleFemale | 877 932 | 81 70 | 70 64 | | 79 108 | 1 | 1 | | | 1 |
| | | 1 | | | Per | cent | 1 | , | 1 | |
| Total, all races | 100.0 | 11.6 | 11.7 | 0.9 | 15.4 | 9.6 | 14.5 | 20.5 | 5.4 | 10.4 |
| MaleFemale | 100.0 | | 11.4 11.9 | | 15.2 15.7 | | | 20.3 20.7 | | |
| White | 100.0 | 10.8 | 11.0 | 0.9 | 14.9 | 9.9 | 15.3 | 21.5 | 5.1 | 10.5 |
| MaleFemale | 100.0 | | | | | | | | i | |
| Nonwhite | 100.0 | 15.4 | 14.8 | 1.0 | 18.5 | 8.8 | 11.1 | 16.3 | 7.2 | 7.0 |
| MaleFemale | 100.0 | | | | | i | 1 | | | A . |

¹ Includes 10 persons with sex not stated. ² Includes 2 persons with sex not stated.

Degree of vision for persons on the register at the end of the year is based on the results of the latest recorded examination for each registrant.

There was no appreciable sex difference in the

percent distribution by degree of vision. Nonwhites appear to have somewhat higher proportions than whites in the more severe visual loss groups.

⁵ Includes 7 persons with sex not stated.

⁴ Includes 1 person with sex not stated.

⁵ Includes 8 persons with sex not stated.

TABLE 29.—Total on register by age and degree of vision: MRA total, as of December 31, 1965 (number and percent)

| | | | | | Degree | of vision | | | | |
|-----------------|--------|-----------------------|--------------------------|------------------|-----------------------|----------------------------------|-----------------------------------|--------|----------------------|---------|
| Age | Total | Absolute blindness | Light percep- tion | Light projection | Less than 5/200 | 5/200 but less than 10/200 | 10/200 but less than 20/200 | 20/200 | Field restriction | Unknown |
| | | | | | Nu | mber | | | | |
| Total, all ages | 54,892 | 6,390 | 6,402 | 518 | 8,474 | 5,250 | 7,936 | 11,236 | 2,986 | 5,700 |
| Under 5 | 333 | 83 | 49 | 8 | 11 | 4 | 11 | 16 | 1-2-1-1 | 151 |
| 5-19 | 5,738 | 926 | 771 | 46 | 465 | 339 | 712 | 1,499 | 73 | 907 |
| 20-44 | 8,663 | 1,144 | 1,002 | 69 | 1,151 | 736 | 1,265 | 2,060 | 561 | 675 |
| 45-64 | 14,179 | 1,754 | 1,672 | 144 | 2,461 | 1,381 | 2,034 | 2,636 | 1,142 | 955 |
| 65-74 | 9,082 | 1,049 | 1,151 | 91 | 1,681 | 949 | 1,249 | 1,660 | 592 | 660 |
| 75-84 | 9,047 | 855 | 1,008 | 84 | 1,540 | 1,024 | 1,443 | 1,899 | 386 | 808 |
| 85 and over | 5,921 | 488 | 643 | 70 | 1,005 | 710 | 954 | 1,169 | 163 | 719 |
| Unknown | 1,929 | 91 | 106 | 6 | 160 | 107 | 268 | 297 | 69 | 825 |
| | | | | 1 | Per | rcent | | | | - |
| Total, all ages | 100.0 | 11.6 | 11.7 | 0.9 | 15.4 | 9.6 | 14.5 | 20.5 | 5.4 | 10.4 |
| Under 5 | 100.0 | 24.9 | 14.7 | 2.4 | 3.3 | 1.2 | 3.3 | 4.8 | 0 | 45.3 |
| 5-19 | 100.0 | 16.1 | 13.4 | 0.8 | 8.1 | 5.9 | 12.4 | 26.1 | 1.3 | 15.8 |
| 20-44 | 100.0 | 13.2 | 11.6 | 0.8 | 13.3 | 8.5 | 14.6 | 23.8 | 6.5 | 7.8 |
| 45-64 | 100.0 | 12.4 | 11.8 | 1.0 | 17.4 | 9.7 | 14.3 | 18.6 | 8.1 | 6.7 |
| 65-74 | 100.0 | 11.6 | 12.7 | 1.0 | 18.5 | 10.4 | 13.8 | 18.3 | 6.5 | 7.3 |
| 75-84 | 100.0 | 9.5 | 11.1 | 0.9 | 17.0 | 11.3 | 16.0 | 21.0 | 4.3 | 8.9 |
| 85 and over | 100.0 | 8.2 | 10.9 | 1.2 | 17.0 | 12.0 | 16.1 | 19.7 | 2.8 | 12.1 |

Degree of vision for persons on the register at the end of the year is based on the results of the latest recorded examination for each registrant.

The pattern in this table is somewhat similar to that of Table 7, although relatively more of all registrants (11.6 percent) were totally blind than were first additions during the year (6.6

percent). About 42 percent of all registered persons under 5 years of age had vision limited to light projection or less. The percent of the blind with "unknown" degree of vision was relatively high in the younger age groups as well as those 85 years or older, probably indicative of the difficulty in obtaining valid examinations of persons in these age groups.

TABLE 30.—Removals from register by reason for removal: each MRA State and MRA total, 1965 (number and percent)
[Exclusive of Utah]

| | | | Reason for | removal | | | | | | |
|----------------|---------|-------|------------|-------------------|------------------|-------|--|--|--|--|
| State | Total | Death | Left State | Sight restored | Unable to locate | Other | | | | |
| | | | Num | ıber | | | | | | |
| MRA total | 4,943 | 3,092 | 487 | 732 | 484 | 148 | | | | |
| Connecticut | 278 | 208 | 39 | 9 | 4 | 1: | | | | |
| Kansas | 345 | 194 | 46 | 94 | 8 | | | | | |
| ouisiana | 610 | 437 | 65 | 94 | 3 | 1 | | | | |
| Massachusetts | 730 | 653 | 44 | 11 | 20 | | | | | |
| New Hampshire | 105 | . 87 | 7 | 11 | | | | | | |
| New Jersey | 257 | 117 | 70 | 45 | 22 | | | | | |
| New Mexico | 458 | 221 | 42 | 56 | 71 | 6 | | | | |
| North Carolina | 1,401 | 674 | 77 | 275 | 350 | 2 | | | | |
| Oregon | 309 | 179 | 38 | 80 | 5 | | | | | |
| Rhode Island | 60 | 47 | 5 | 6 | _ | | | | | |
| South Dakota | 100 | 70 | 17 | 12 | | | | | | |
| Vermont | 95 | 71 | 16 | 6 | 1 | | | | | |
| Virginia | 195 | 134 | 21 | 33 | - | | | | | |
| | Percent | | | | | | | | | |
| MRA total | 100.0 | 62.6 | 9.9 | 14.8 | 9.8 | 3. | | | | |
| Connecticut | 100.0 | 74.8 | 14.0 | 3.2 | 1.4 | 6. | | | | |
| Kansas | 100.0 | 56.2 | 13.3 | 27.2 | 2.3 | 0. | | | | |
| Louisiana | 100.0 | 71.6 | 10.7 | 15.4 | 0.5 | 1. | | | | |
| Massachusetts | 100.0 | 89.5 | 6.0 | 1.5 | 2.7 | 0. | | | | |
| New Hampshire | 100.0 | 82.9 | 6.7 | 10.5 | 0 | 0 | | | | |
| New Jersey | 100.0 | 45.5 | 27.2 | 17.5 | 8.6 | 1. | | | | |
| New Mexico | 100.0 | 48.3 | 9.2 | 12.2 | 15.5 | 14. | | | | |
| North Carolina | 100.0 | 48.1 | 5.5 | 19.6 | 25.0 | 1. | | | | |
| Oregon | 100.0 | 57.9 | 12.3 | 25.9 | 1.6 | 2. | | | | |
| Rhode Island | 100.0 | 78.3 | 8.3 | 10.0 | 0 | 3. | | | | |
| South Dakota | 100.0 | 70.0 | 17.0 | 12.0 | 0 | 1. | | | | |
| Vermont | 100.0 | 74.7 | 16.8 | 6.3 | 1.1 | 1. | | | | |
| Virginia | 100.0 | 68.7 | 10.8 | 16.9 | 0 | 3. | | | | |

Death generally accounted for more than half of the removals from the various State registers.

For the MRA as a whole death accounted for about 63 percent of the removals.

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